CENTRAL STATISTICAL OFFICE

Economic Trends

ARTICLE

Research and development in the UK in 1986

No 418
August 1988

Release dates of economic statistics to be published in September 1988

This is issued by the Central Statistical Office on behalf of the and other organisations as a guide to the publication dates of major economic series in September 1988. The dates are targets which are correct at time of going to press. Exceptionally, there may be delays due to unavoidable statistical problems. Enquiries about release of individual series should be made to the source named.

Publication date	Series	Method of release	Source
September			
Fri 2	UK official reserves (August)	PN	HMT
	Capital issues and redemptions (August)	PN	Bank of England
	Housing starts and completions (July)	PN	DOE
Mon 5	Retail sales (July-final)	PN	DTI
	Credit business (July)	PN	DTI
Wed 7	Advance energy statistics (July)	PN	Dept. of Energy
	Employment Gazette: including detailed analysis of employment, unemployment, earnings, prices and other indicators	Employment Gazette	DE
Thurs 8	CBI/FT Survey of distributive trades (August)	PN	CBI
Fri 9	Construction statistics (2nd quarter)	PN	DOE
	United Kingdom National Accounts 1988 edition (CSO Blue Book)	Annual Volume	CSO
Mon 12	Retail sales (August-provisional)	PN	DTI
	Producer price index numbers (August-provisional)	PN	DTI
Tues 13	International banking statistics (2nd quarter)	PN	Bank of England
Wed 14	Index of output of the production industries	PN	CSO
Thurs 15	UK Balance of payments (2nd quarter)	PN	CSO
	Capital expenditure by the manufacturing and service industries (2nd quarter-revised)	PN	DTI
	Provisional figures of vehicle production (August)	PN	DTI
	Labour market statistics: unemployment and vacancies (August-provisional); average earnings indices (July provisional); employment, hours, productivity and unit wage costs; industrial disputes	PN	DE
Fri 16	Usable steel production (August)	PN	BSC/BISPA
	Public sector borrowing requirement (August)	PN	HMT/CSO
	Tax and price index (August)	PN	CSO
	Retail prices index (August)	PN	DE
Sun 18	National Savings monthly progress report (August)	PN	Dept. for National Savings
Mon 19	CBI Monthly Trends Enquiry (September)	PN	CBI
Tues 20	London and Scottish banks monthly statement (August)	PN	CLSB
	Provisional estimates of monetary aggregates (August)	PN	Bank of England
	Manufacturers' and distributors' stocks (2nd quarter-revised)	PN	DTI
Wed 21	Gross domestic product (2nd quarter-provisional)	PN	CSO
	Cyclical indicators for the UK economy (August)	PN	CSO
	Construction — new orders (July-provisional)	PN	DOE
Fri 23	Building societies monthly figures (August)	PN	BSA
Mon 26	Food facts (2nd quarter)	PN	MAFF
Tues 27	Balance of payments current account and overseas trade figures (August)	PN	DTI/CSO
Wed 28	Personal income and expenditure (2nd quarter)	PN	CSO
	Industrial and commercial companies (2nd quarter)	PN	CSO
Thurs 29	London sterling certificates of deposit (August)	PN	Bank of England
	Bill turnover statistics (August)	PN	Bank of England
	Sterling commercial paper (August)	PN	Bank of England
	Monetary statistics (including bank and building society balance sheets) (August)	PN	Bank of England
	New vehicle registrations (August)	PN	DTp
	Energy Trends (July)	PN	Dept. of Energy
	New Earnings Survey 1988 - Part A (Parts B to F will be published at approximately fortnightly intervals)	Annual Volume	DE
Fri 30	Engineering index of production and sales and orders at current prices (July)	British Business	DTI

PN = Press Notice

Economic Trends

No 418
August 1988

First published 1988

A service of statistical information and advice is provided to Government by specialist staffs employed in the statistics division of individual Departments. Statistics are made generally available through their publications and further information and advice on them can be obtained from the Department concerned.

The sources of the series published in this volume and further information about them are shown in the index. Current telephone numbers of these sources as well as general information about *Economic Trends* can be obtained from the , Great George Street, London SW1P 3AQ. Telephone: 01-270 6363/6364

Enquiries about orders and subscriptions for *Economic Trends* and other Central should be made to:

Office, PO Box 276, London SW8 5DT
(Telephone: 01-211 8667 for subscriptions; 01-622 3316 for orders).

ISBN 0 11 620320 X
ISSN 0013-0400

Introduction

Economic Trends brings together all the main economic indicators. It contains three regular sections of tables and charts illustrating trends in the UK economy:

'Latest developments' presents the most up-to-date statistical information available during the month. It is important to note that data included in this section may not be wholly consistent with other sections which have gone to press earlier.

The main section is based on information available to the CSO on the date printed at the foot of this page and shows the movements of the key economic indicators. The indicators appear in tabular form on left hand pages with corresponding charts on facing right hand pages. Colour has been used to aid interpretation in some of the charts, for example by creating a background grid on those charts drawn to a logarithmic scale. Index numbers in some tables and charts are given on a common base year for convenience of comparison.

The section on cyclical indicators shows the movements of four composite indices over 20 years against a reference chronology of business cycles. The indices group together indicators which lead, coincide with and lag behind the business cycle, and a short note describes their most recent movements. The February, May, August and November issues carry further graphs showing separately the movements in all of the 22 indicators which make up the composite indices.

In addition, quarterly articles on the national accounts appear in the January, April, July and October issues, and on the balance of payments in the March, June, September and December issues. Occasional articles comment on and analyse economic statistics and introduce new series, new analyses and new methodology.

Economic Trends is prepared monthly by the
in collaboration with the statistics divisions of Government Departments and the Bank of England.

Notes on the tables

1. The statistics relate mainly to the United Kingdom; where figures are for Great Britain only, this is shown on the table.
2. Some data, particularly for the latest time period, are provisional and may be subject to revision in later issues.
3. Rounding may lead to inconsistencies between the sum of constituent parts and the total in some tables.
4. A line drawn across a column between two consecutive figures indicates that the figures above and below the line have been compiled on different bases and are not strictly comparable. In each case a footnote explains the difference.
5. 'Billion' denotes one thousand millions.
6. There may sometimes be an inconsistency between a table and the corresponding chart, because the data may be received too late to update the chart. In such cases it should be assumed that the table is correct.
7. Symbols used.
   - .. not available
   - \- nil or less than half the final digit shown
   - \+ alongside a heading indicates a series for which measures of variability are given on page 81
   - † indicates that the data has been revised since last issue; the period marked is the earliest in the table to have been revised.

The Editor would welcome readers' suggestions for improvements to Economic Trends

26 August 1988

Regional Accounts: Revisions

Readers may wish to note that the annual regional accounts article published in November 1987 contained estimates of gross domestic product (GDP) and personal income in Northern Ireland in 1983–86 which are now known to have been too low.

The source of the underestimates lay in the analysis of the one per cent sample of National Insurance records, which is used to estimate regional wages and salaries (the biggest component of the income estimate of GDP). An error in the regional coding of the sample resulted in an under-recording of earners in Northern Ireland. Latest estimates of the cumulative effect of this error suggest that it led to an underestimate of Northern Ireland GDP of some 2½ per cent in 1983 rising to about 11 per cent in 1986.

Revised figures will be published in the November 1988 issue of Economic Trends as part of the next annual regional accounts article. As a matter of course all regional estimates will be brought up to date at the same time to incorporate the latest national accounts estimates, the latest regional statistics and some improvements to regional accounts methodology. Present indications are that the most significant of the other revisions will be a downward revision to the GDP of East Anglia of no more than 4 per cent from 1982–86 and changes to the industrial analysis for all regions, but particularly the South East.

For further information please write to Mrs C Wykes at the Central Statistical Office or telephone 01-270 6074.

Contents

	Page
Introduction	1
Regional Accounts - revisions	1
Latest developments in the economy	3
Selected monthly indicators	5
Table and charts	
National accounts aggregates	6
Expenditure on the gross domestic product	8
Personal disposable income and consumption	10
Real consumers' expenditure - component categories	10
Retail sales, new registrations of cars and credit business	12
Gross domestic product and shares of income and expenditure	14
Income, product and spending *per capita*	14
Gross domestic fixed capital information by sector and by type of asset	16
Indicators of fixed investment by manufacturing industry	18
Indicators of fixed investment in dwellings	20
Stock changes	22
Stock ratios	22
Inland energy consumption	24
Index of output of the production and construction industries	26
Index numbers of output	28
Engineering and construction: output and orders	30
Motor vehicle production and steel production and consumption	32
Output per person employed	34
National employment and unemployment	36
Regional unemployment rates	38
Average earnings	40
Prices	42
Visible trade	44
Measures of UK competitiveness in trade in manufactures	46
Balance of payments current account	48
Sterling exchange rates and the UK official reserves	50
Monetary aggregates	52
Counterparts to changes in M3	54
General government receipts and expenditure	56
Financial transactions of the public sector	56
Summary capital accounts and financial surplus or deficit: analysis by sector	58
Appropriation account of industrial and commercial companies	60
Capital account and net acquisition of financial assets of industrial and commercial companies	62
Net borrowing requirements of industrial and commercial companies	62
UK banks' lending to UK residents	64
UK banks' advances and acceptances to UK residents	64
Interest rates, security prices and yields	66
Cyclical indicators for the UK economy	68
Measures of variability of selected economic series	81
Articles	
Research and development in the UK in 1986	82
Index of sources	89
Other	
Release dates of economic statistics to be published next month	*inside front cover*
Articles published in recent *Economic Trends*	*inside back cover*

Latest developments in the economy [1]

Data available at 29 August 1988

Official reserves and exchange rate (not seasonally adjusted)
The UK official reserves rose by $1,307 million in July to $49,826 million. There was no borrowing under the exchange cover scheme this month. The valuation change arising out of the quarterly rollover of the EMCF swap amounted to a rise of $444 million. After taking account of foreign currency borrowing and repayments, the underlying change in the reserves during July was a rise of $910 million.

As of August 24 the average Exchange Rate Index for August was 1.3 per cent higher than that in July.

Unemployment and vacancies
The seasonally adjusted level of unemployment in the UK (excluding school leavers) decreased by 58,500 to 2.314 million in July, 8.2 per cent of the workforce. Over the past six months on average, unemployment has fallen by 41,800 per month.

The stock of unfilled vacancies at jobcentres (excluding Community Programme vacancies) decreased by 5,800 in the month to July to reach 249,400. Over the past three months to July vacancies have increased on average by 1,400 per month.

Employment
The number of employees in employment in manufacturing industry in Great Britain is estimated to have fallen by 8,000 in June 1988 and by 22,000 in the second quarter of 1988. The latest quarter's figures suggest that the trend is still downwards though not at the rate observed in 1986 and early 1987.

The employed labour force is estimated to have increased by 618,000 in the year to March 1988 and by 2,140,000 since March 1983.

Earnings
The whole economy index of average earnings of employees in Great Britain in June 1988 was,provisionally, 214.5 (January 1980=100), an increase of 0.4 per cent over May and 8.3 per cent higher than in June 1987. The underlying increase in average weekly earnings in the year to June was about 8½ per cent, the same as the increase in the year to May. The actual increase in the year to June, at 8.3 per cent, was below the estimated underlying increase, as several groups of workers did not receive pay increases in the twelve month period.

In production industries, the underlying increase in average weekly earnings in the year to June was about 8¾ per cent, a rise of ¼ per cent on the year to May, which has been revised down from 8¾ per cent; in manufacturing industries the increase was 9 per cent in the year to June, a rise of ¼ per cent on the year to May. These increases include the effect of higher overtime working this year than a year ago.

Productivity
Manufacturing output per head in the three months to June was 1.8 per cent higher than in the previous three months and 7.2 per cent higher than in the same period a year earlier. Output per head in the whole economy in the first quarter of 1988 was the same as in the previous quarter and 3.0 per cent higher than in the same period a year earlier.

Unit wage and salary costs
In the three months ending June, wages and salaries per unit of output in manufacturing industries were 1.4 per cent above the corresponding period a year earlier. This increase was below the rise in average earnings in manufacturing as there was a rise of about 7¼ per cent in productivity over this period. For the whole economy, wages and salaries per unit of output in the first quarter of 1988 were 5.9 per cent above the corresponding period of 1987. This increase was below the rise in average earnings in the whole economy as there was a rise of about 3 per cent in productivity over this period.

Output
Preliminary estimates suggest that the output of the whole economy increased by nearly 1½ per cent between the first and second quarters of 1988 to a level about 5 per cent higher than in the same period a year earlier. Output of the service sector grew by about 1½ per cent between the first and second quarters. Within this increase distribution output grew by ½ per cent. The output of the production industries increased by 1½ per cent including a ½ per cent increase in energy output and a 1½ per cent increase in manufacturing.

Capital expenditure
The provisional estimate of capital expenditure by the manufacturing, construction, distribution and financial industries in the second quarter of 1988 is £7591 million, at 1985 prices, over 3½ per cent higher than in the preceding quarter, and 11 per cent higher than in the second quarter of 1987. The volume of investment in the last twelve months was 14 per cent higher than in the preceding twelve months.

The provisional estimate of manufacturers' direct expenditure in the second quarter of 1988 (taking into account the leasing of assets to manufacturers from the financial industries) is £2874 million at 1985 prices and seasonally adjusted, 9 per cent higher than in the previous quarter and 12½ per cent higher than in the second quarter of 1987. The volume of investment (including leased assets) in the last twelve months was 12 per cent higher than in the preceding twelve months. On the same annual basis of comparison, expenditure (including leasing) on individual assets increased by over 4 per cent for new building work, by over 9 per cent for vehicles, and by almost 13½ per cent for plant and machinery.

The revised estimate of investment by the construction, distribution and financial industries (excluding leasing to manufacturers) in the second quarter of 1988 is £4717 million at 1985 prices and seasonally adjusted, almost 1 per cent higher than in the preceding quarter, and over 10 per cent higher than in the second quarter of 1987. The volume of investment in the last twelve months (excluding leasing to manufacturers) was over 15 per cent higher than in the preceding twelve months. On the same basis, expenditure (excluding leasing) on individual assets rose by over 20 per cent for new building work, almost 5½ per cent for vehicles and by over 16 per cent for plant and machinery.

Consumers' expenditure

The provisional estimate of seasonally adjusted index of the volume of retail sales in July was 139.5 (1980=100). In the three months to July the level of sales was nearly 1 per cent above that in the previous three months and 6¾ per cent higher than in the corresponding period a year earlier.

Balance of payments

The current account for July was estimated to have been in deficit by £2151 million compared with a deficit of £1041 million in June. In the three months ended July, the current account showed a deficit of £4.4 billion compared with a deficit of £2.6 billion in the previous three months. There was a deficit on visible trade of £5.9 billion in the latest three months compared with one of £3.8 billion in the three months ended April. The surplus on invisibles in the latest three months is projected at £1.5 billion.

There was a deficit on visible trade in July of £2651 billion compared with a deficit of £1541 million in June. The value of exports in July was 1 per cent lower than in June; excluding oil and the erratic items, they rose by 4½ per cent. Imports in July, excluding oil and erratic items, were 14 per cent higher than in June.

By volume, exports rose by 1 per cent between the three months ended April and the latest three months to be 3 ½ per cent higher than in the same period a year ago. Excluding oil and the erratic items, export volume rose by 4½ per cent in the latest three months to be 5½ per cent higher than in the same period a year ago. The underlying level of non-oil export volume appears to have exceeded the high level reached at the end of last year.

Total import volume in the latest three months was 13 per cent higher than in the previous three months and 18 per cent higher than in the same period a year ago. Excluding oil and the erratic items, import volume rose by 11 per cent in the latest three months and was 16 per cent higher than in the same period a year ago.

Prices (not seasonally adjusted)

The general index of retail prices for all items for July 1988 was 106.7 (January 1987=100). This represents an increase of 0.1 per cent on June 1988 and an increase of 4.8 per cent on July 1987. The rise in the index between June and July was the result of higher prices for motor vehicles purchase and insurance, non-seasonal foods and for electricity and gas (as the final tranches of the recent price increases were reflected in the index.) As is usual for the season, fresh food prices were lower and their were summer sale price reductions for clothing and footwear. The Tax and Price Index for July 1988 was 102.4 (January 1987=100), 2.7 per cent higher than in July 1987 compared with an increase of 4.8 per cent in the Retail Prices Index.

The price index for materials and fuel purchased by manufacturing industry rose, provisionally, by 4.0 per cent in the twelve months ended July after having risen by 4.8 per cent in the twelve months ended June. Between June and July the index fell by 0.4 per cent. This decrease mainly reflected a fall in the prices of metals which was only partly offset by a rise in the prices of food manufacturing materials. The seasonally adjusted index rose by 0.2 per cent between June and July.

Monetary aggregates (not seasonally adjusted except where indicated)

Provisional information suggests that in the twelve months to July, M0 rose by 7 per cent, M3 by 20.6 per cent, M4 by 17.4 per cent and M5 by 16.7 per cent. In July, M0 rose by 2.2 per cent, M3 by 2.8 per cent, M4 by 2.4 per cent and M5 by 2.4 per cent, before seasonal adjustment. After seasonal adjustment, M0 rose by 0.9 per cent, M3 by 2.7 per cent, M4 by 2.1 per cent and M5 by 2.0 per cent.

Selected monthly indicators (1)

		Seasonally adjusted						Unadjusted				Seasonally adjusted	
		1980=100	1980=100	Thousands		January 1980=100	1985=100	January 1987=100	January 1987=100	1975=100	$ billion	£ million	
		Volume of retail sales GB(2,3)	Index of production	Unemployment (4,5)	Vacancies (6,7)	Average earnings - whole economy: GB	Producer price of materials and fuel(8)	Retail price index (all items)	Tax and price index	Sterling exchange rate index	UK official reserves(9)	Balance of payments: Current balance	Money stock M3
		FAAM	DVIM	BCJD	DPCB	DNAB	DZDQ	CHAW	DQAB	AJHT	FOAB	AIMF	AGBC
1987	M	126.0	111.9†	3 037.3	214.2	194.8	94.0†	100.6	100.7	71.9	27.0	354†	159 090†
	A	129.9	111.8	3 021.4	217.7	197.4	94.5	101.8	99.7	72.3	29.8	236	162 632
	M	126.3	112.5	2 950.9	230.5	198.5	94.4	101.9	99.8	73.3	34.7	-361	164 973
	J	129.3	111.4	2 922.2	233.7	198.1	96.0	101.9	99.8	72.6	34.4	-93	167 325
	J	131.0	113.5	2 873.1	235.2	201.3	96.9	101.8	99.7	72.8	34.9	-261	170 995
	A	132.1	115.0	2 825.5	236.9	201.3	97.1	102.1	100.0	72.3	34.4	-694	173 250
	S	132.0	113.6	2 772.2	246.6	201.8	96.5	102.4	100.4	73.1	34.8	35	175 656
	O	133.0	115.1	2 713.6	261.4	203.8	96.5	102.9	100.9	73.6	41.4	-392	182 127
	N	133.8	115.3	2 650.8	268.2	206.3	95.6	103.4	101.5	75.4	41.3	-525	181 953
	D	133.5	115.4	2 613.9	256.6	208.0	95.6	103.3	101.4	75.8	44.3	-480	184 535
1988	J	134.9	116.5	2 564.7	249.5	209.5	95.2	103.3	101.4	75.0	43.1†	-1 159	185 704
	F	135.3	114.0	2 532.6	247.9	209.2†	95.6	103.7	101.8	74.3	42.9	-1 044	186 598
	M	135.5†	115.8	2 504.0†	245.5	213.3	95.7	104.1†	102.3	76.8	47.5	-572	192 197
	A	136.4	116.5	2 453.1	253.7†	215.1	96.8	105.8	101.4	78.2†	47.9	-667	195 239
	M	136.8	117.6	2 414.2	255.5	213.6	98.2	106.2	101.9	78.4	48.5	-1 144	196 442
	J	136.8	116.6	2 372.4	255.2	214.5	100.8	106.6	102.3	76.2	48.5	-1 021	201 169
	J	139.5		2 313.9	249.4		100.6	106.7	102.4	75.6			
		Percentage change, latest three months on previous three months											
1987	J	2.4	0.6	-3.5	7.7	2.2	1.1	1.5	-0.6	4.1	..	..	..
	J	1.1	0.7	-4.2	9.5	2.1	1.7	0.9	-0.5	2.6	..	..	..
	A	2.6	1.2	-4.3	6.6	1.7	2.5	0.5	-0.2	0.1	..	..	..
	S	2.4	2.0	-4.8	5.4	1.8	2.0	0.2	0.3	-	..	..	..
	O	2.7	1.9	-5.0	6.5	1.5	1.0	0.6	0.6	0.1	..	..	..
	N	1.7	1.2	-5.6	10.0	1.9	-0.5	0.9	1.2	2.0	..	..	..
	D	1.3	1.1	-5.8	9.4	2.3	-1.0	1.1		3.0	..	..	..
1988	J	1.2	1.0	-5.8	3.9	2.8	-1.3	0.8	..	3.3	..	..	..
	F	1.3	0.6	-5.2	-2.9	2.4	-0.8	0.5	..	1.4	..	..	..
	M	1.4	0.1	-4.7	-5.5	2.2	-0.4	0.5	..	0.6	..	..	..
	A	1.3	-0.3	-4.3	-3.5	2.2	0.6	1.2	..	1.4	..	..	..
	M	1.3	1.2	-4.4	0.1	2.4	1.5	1.9	..	3.7	..	..	..
	J	1.0	1.3	-4.7	2.9	1.8	3.2	2.4	..	3.0	..	..	..
	J	1.4		-5.2	1.7		4.0	1.9	..	0.4	..	..	..
		Percentage change, latest three months on corresponding period of previous year											
1987	J	5.8	2.3	-7.4	29.5	7.6	3.4	4.2	..	-4.4	..	..	..
	J	5.6	3.0	-9.1	27.2	8.2	5.4	4.2	..	-3.2	..	..	..
	A	6.2	3.3	-10.4	22.0	7.8	7.1	4.3	..	-1.6	..	..	..
	S	6.5	3.4	-11.8	19.8	7.9	6.9	4.3	..	1.1	..	..	..
	O	6.4	3.7	-13.0	20.7	7.8	5.6	4.3	..	4.5	..	..	..
	N	5.9	3.5	-14.4	23.5	8.1	4.2	4.3	..	7.5	..	..	..
	D	5.6	4.3	-15.4	24.3	8.4	3.4	4.1	..	9.8	..	..	..
1988	J	5.4	5.0	-16.6	21.9	8.6	2.4	3.7	..	9.9	..	..	..
	F	6.9	4.3	-17.1	19.8	8.5	2.0	3.4	..	9.1	..	..	..
	M	7.8	3.9	-17.5	17.3	8.8	1.7	3.4	..	7.8	..	..	..
	A	6.5	3.3	-17.9	16.9	8.9	2.0	3.6	..	7.6	..	..	..
	M	7.0	4.1	-18.2	13.9	8.7	2.8	3.9	..	7.3	..	..	..
	J	6.3	4.5	-18.6	12.1	8.3	3.8	4.3	..	6.7	..	..	..
	J	6.8		-18.8	8.7		4.3	4.5	..	5.3	..	..	..

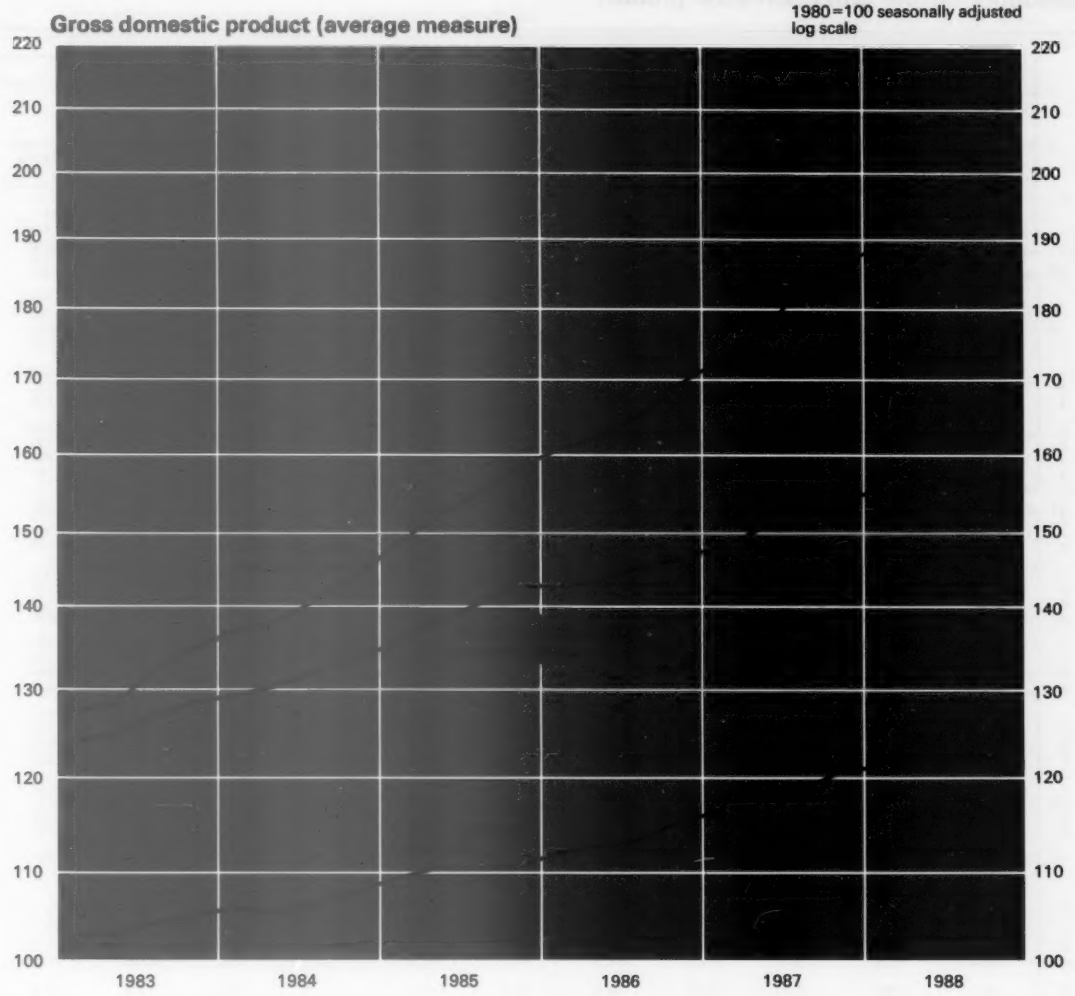
1 Data given may not be wholly consistent with that shown elsewhere in the publication.
2 This index is given to one decimal place but this does not imply that it can be regarded as accurate to the last digit shown.
3 Monthly figures of retail sales are based on four-week periods, except for the months of March, June, September and December which are five-week periods.
4 Unemployed claimants excluding school leavers.
5 The seasonally adjusted series have been revised to allow for all discontinuities, to be consistent with the current coverage.
6 Vacancies notified to job centres remaining unfilled.
7 This series excludes community programme vacancies.
8 Purchased by manufacturing industry. (Revised definition)
9 Apart from transactions, the level of official reserves is affected changes in the dollar valuation of gold, Special Drawing Rights and convertable currencies. From end-March 1979 these rates are revised annually. These valuation changes are described in detail in the description of Table 10.3 in the Financial Statistics Explanatory Handbook.

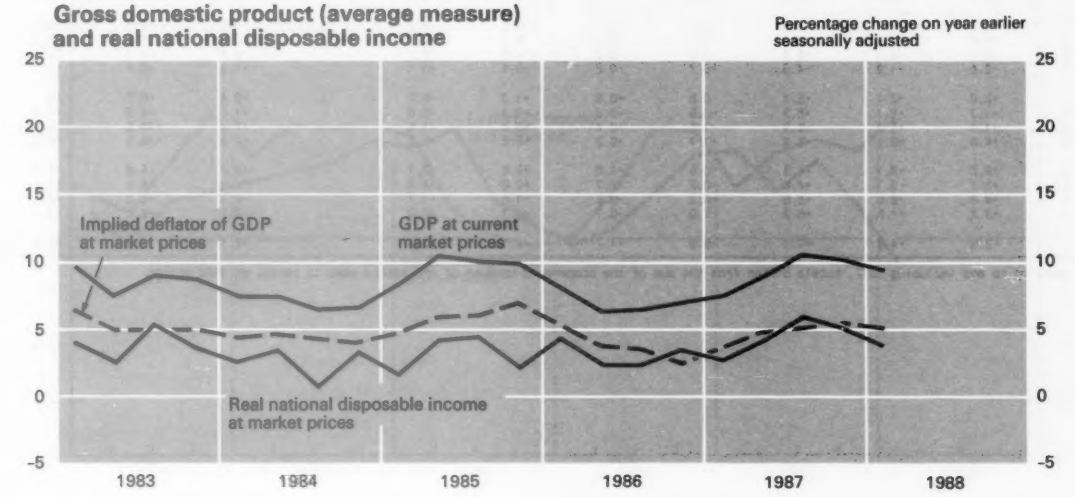
National accounts aggregates (1)

Seasonally adjusted

		Gross domestic product									National disposable income at 1980 market prices	Implied gross domestic product deflator 1980=100	
		At market prices			At factor cost								
		At current prices		At 1980 prices	At current prices		At 1980 prices					At factor cost	At market prices
		£ billion	1980=100	1980=100	£ billion(2)		1980=100				1980=100		
					Based on:		Based on:					Based on:	
		average estimate	average estimate	average estimate	expenditure data	income data	average estimate	expenditure data	income data(3)	output data	average estimate	expenditure data(4)	expenditure data
		CAOB	DJCL	FNAO	FNAP	FNAQ	DJDD	DJDE	DIAR	DSAE	DJCR	DJCM	DJDT
1978		167.8	72.8	99.7	149.1	148.1	99.7	100.0	99.3	99.9	98.3	74.7	72.9
1979		197.4	85.6	102.5	171.4	172.1	102.4	102.0	102.4	102.9	101.7	84.2	83.5
1980		230.6	100.0	100.0	199.7	199.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1981		254.3	110.3	98.9	218.4	219.1	99.1	99.3	99.6	98.4	99.8	110.1	111.5
1982		277.9†	120.5	100.4	236.3	239.3	100.7	100.4	101.6	100.1	101.3	117.9	120.0
1983		302.1	131.0	103.7	258.9	260.9	104.0	104.0	104.8	103.3	105.2	124.7	126.3
1984		323.1	140.1	106.4	276.4†	279.4	106.5	105.9	107.0	105.7	107.9	130.8	131.7
1985		354.5	153.7	110.2	304.1	305.0†	110.4	110.1	110.4	110.7	111.2	138.3	139.4
1986		379.3	164.5	113.7†	321.2	324.0	113.6†	113.0	113.9†	113.9	114.7	142.4†	144.8†
1987		414.6	179.8†	118.7	347.7	355.2	118.4	116.7†	119.2	119.3†	119.7†	149.2	151.5
1982	4	71.7	124.4	101.3†	61.3†	61.6	101.5†	101.5	102.1	100.8	102.6†	120.9	122.8
1983	1	73.7	127.8	102.8	63.6	63.3	103.1	103.9	103.4	101.8	104.9	122.6	124.3
	2	74.1	128.5	102.9	62.9	64.4	103.2	102.7	105.0	102.1	103.2	122.8	124.8
	3	76.4	132.5	104.2	65.6	66.0	104.5	104.4	105.1	104.0	106.3	125.8†	127.1
	4	78.0	135.3	104.9	66.8	67.2	105.2	105.0	105.6†	105.2	106.3	127.5	128.9
1984	1	79.1	137.2	105.8	68.1	68.2	106.1	106.1†	106.2	105.9	107.8	128.6	129.6
	2	79.5†	138.0	105.6	67.8	68.7	105.6	104.6	106.0	106.1	106.8	129.8	130.6
	3	81.2	140.9	106.4	68.9	70.4	106.5	105.3	107.5	106.9	107.1	131.2	132.4
	4	83.2	144.3	107.6	71.6	72.1	107.8	107.5	108.2	107.8	109.9	133.5	134.0
1985	1	85.6	148.6†	109.3	74.1	73.9†	109.5	109.7	109.3	109.5	109.5	135.4	135.9
	2	87.9	152.5	110.3	75.7	75.9	110.7	110.5	110.8	111.0	111.3	137.3	138.2
	3	89.5	155.2	110.6	76.4	76.8	110.6	110.2	110.8	110.8	111.9	138.9	140.4
	4	91.4	158.6	110.7	77.9	78.4	110.8	110.1	110.7	111.5	112.1	141.8	143.2
1986	1	92.6	160.7	112.4	79.2	79.6	112.5	112.5	113.2	111.8†	114.3	141.0	142.9
	2	93.6	162.3	113.1	79.4	80.1	113.0	112.3	113.2	113.4	113.9	141.7	143.5
	3	95.3	165.3	113.7	79.7	81.4	113.5	111.8	114.1	114.6	114.6	142.8	145.3†
	4	97.8	169.6	115.6	82.9	82.9	115.5	115.4	115.3	115.7	115.9	144.0	146.7
1987	1	99.6	172.8	116.7	84.3	85.3	116.7	116.1	117.3	116.6	117.3	145.7	148.1
	2	101.9	176.7	117.4	85.2	88.0	117.1	114.6	118.4	118.2	118.6	148.9	150.6
	3	105.5	183.0	119.8	87.9	90.3	119.4	117.2	120.4	120.6	121.3	150.2	152.7
	4	107.7	186.8	120.9	90.3	91.6	120.6	119.1	120.9	121.9	121.7	151.9	154.5
1988	1	109.1	189.2	121.5	91.3	93.9	121.4	119.1	122.5	122.5	121.8	153.4	155.7
		Percentage change, quarter on corresponding quarter of previous year (5)											
1982	4	8.4	8.4	1.4	9.0	7.2	1.2	1.8	-	1.8	2.1†	7.1	6.9
1983	1	9.7	9.7	3.3†	11.1	10.5†	3.2	3.8	3.2	2.7	4.1	7.1	6.3
	2	7.4	7.4	2.4	7.3	7.3	2.3	2.4	2.4†	2.1	2.5	4.8†	4.9†
	3	9.0	9.0	3.9	10.7	9.2	3.8	4.7	3.3	3.5	5.3	5.7	4.9
	4	8.7	8.8†	3.5	9.1	9.1	3.7	3.4	3.4	4.3	3.6	6.5	4.9
1984	1	7.4	7.4	3.0	7.1	7.7	2.9	2.1†	2.7	4.0	2.7	4.9	4.3
	2	7.4	7.4	2.7	7.7	6.8	2.3	1.9	1.0	3.9	3.4	5.7	4.6
	3	8.3	8.4	2.1	5.1	6.6	2.0	0.9	2.3	2.8	0.7	4.2	4.2
	4	8.7	8.7	2.6	7.2	7.3	2.4	2.4	2.5	2.5	3.4	4.7	4.0
1985	1	8.1†	8.3	3.3	8.8†	8.3	3.2	3.3	2.9	3.4	1.6	5.3	4.8
	2	10.6	10.6	4.4	11.7	10.5	4.9	5.6	4.5	4.6	4.2	5.8	5.9
	3	10.2	10.2	3.9	10.9	9.2	3.8	4.7	3.1	3.7	4.5	5.9	6.0
	4	9.9	9.9	2.8	8.8	8.6	2.7	2.5	2.3	3.4	2.0	6.2	6.9
1986	1	8.1	8.1	2.8	6.9	7.8	2.7†	2.6	3.5	2.1†	4.3	4.1	5.2
	2	8.4	8.4	2.6	4.9	5.5	2.0	1.7	2.2	2.1	2.3	3.2	3.8
	3	8.5	8.5	2.9	4.3	5.9	2.6	1.4	3.0	3.5	2.3	2.8	3.5
	4	7.0	7.0	4.5	6.4	5.8	4.2	4.8	4.1	3.8	3.4	1.6	2.4
1987	1	7.6	7.6	3.8	6.6	7.1	3.7	3.2	3.6	4.3	2.7	3.3	3.6
	2	8.9	8.9	3.8	7.2	9.9	3.6	2.1	4.6	4.3	4.1	5.1	4.9
	3	10.7	10.7	5.3	10.3	11.0	5.2	4.8	5.5	5.2	5.9	5.2	5.1
	4	10.1	10.2	4.5	8.8	10.6	4.4	3.2	4.9	5.3	5.0	5.5	5.4
1988	1	9.5	9.5	4.2	8.1	10.0	4.0	2.6	4.5	5.1	3.8	5.3	5.1

1 The index numbers are given to one decimal place but this does not imply that they can be regarded as accurate to the last digit shown.
2 Figures in £ million are given on page 14.
3 Income data deflated by the implied GDP deflator at factor cost based on expenditure data.
4 Also known as the index of total home costs.
5 These estimates of change are based in some cases on less rounded figures than in the table.


Gross domestic product (average measure)
1980=100 seasonally adjusted
log scale
220
210
200
190
180
170
160
150
140
130
120
110
100
1983
1984
1985
1986
1987
1988


Gross domestic product (average measure)
and real national disposable income
Percentage change on year earlier
seasonally adjusted
25
20
15
10
5
0
-5
Implied deflator of GDP
at market prices
GDP at current
market prices
Real national disposable income
at market prices
1983
1984
1985
1986
1987
1988

Expenditure on the gross domestic product

Seasonally adjusted

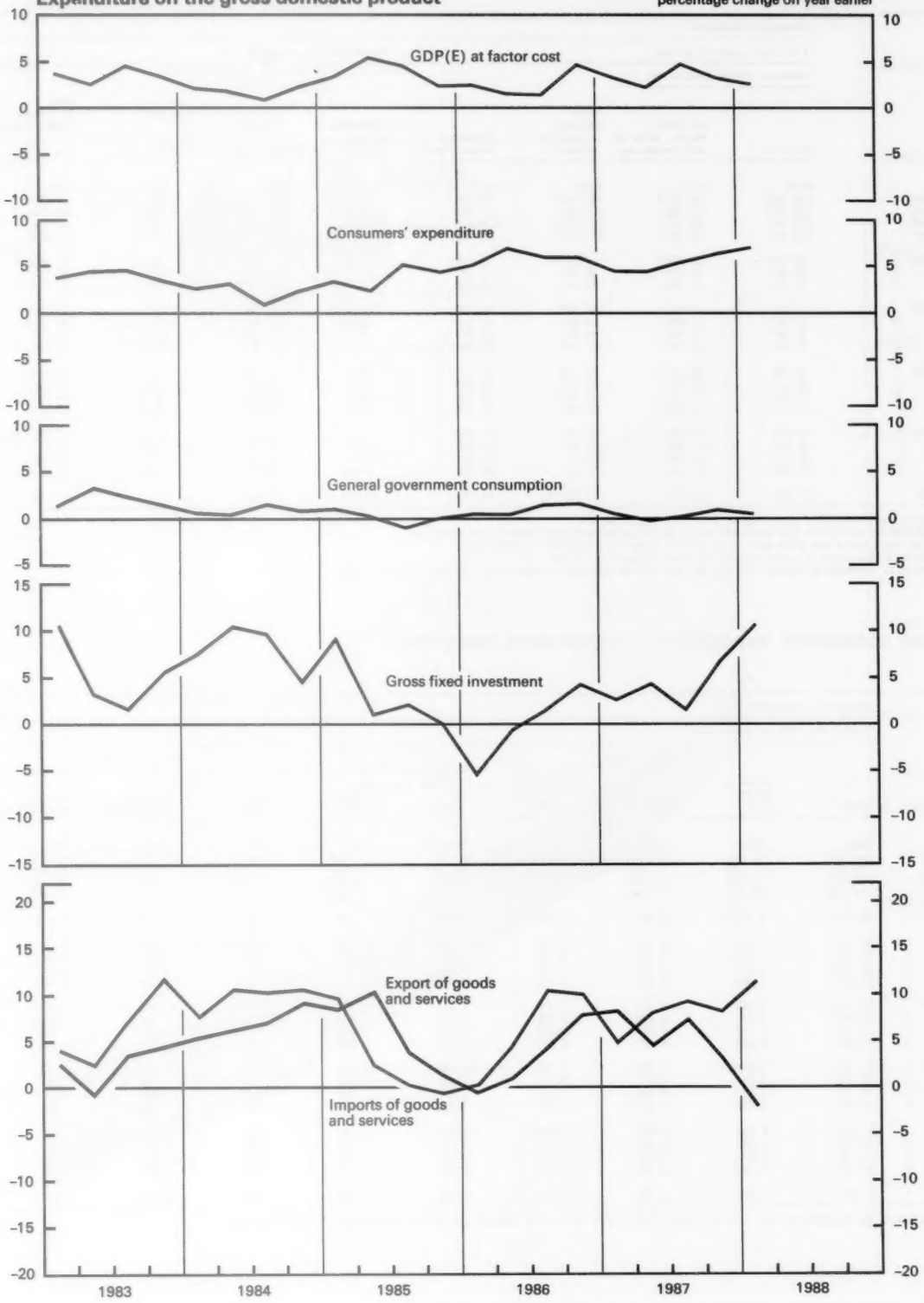
£ million, 1980 prices

		Gross domestic product at factor cost-expenditure based(1)	Final expenditure on goods and services at market prices									Adjustment to factor cost
					General government consumption			Gross fixed investment	Stock building	Exports of goods and services	Imports of goods and services	
			Total(1)	Consumers' expenditure	Total(1)	Central government	Local authorities					
		DJDH	DIAU	CAAB	DIAT	DIAV	DIAW	DEDJ	DBBA	DJDG	DJDJ	DIAS
1980		199 658	288 274	137 470	49 027	29 993	19 034	41 561	-2 586	62 802	57 672	30 944
1981		198 284†	284 457†	137 728	49 165†	30 280†	18 885	37 571	-2 404	62 397†	56 038	30 135†
1982		200 424	289 850	138 812	49 566	30 495	19 070	39 593	-1 038	62 918	58 887	30 539
1983		207 632	301 797	144 479†	50 555	31 087	19 468	41 623	728	64 412	62 628	31 537
1984		211 381	312 818	147 687	51 004	31 405	19 599	44 918†	305	68 904	68 728†	32 709
1985		219 853	324 242	153 287	51 050	31 524	19 526	46 287	659	72 959	70 606	33 761
1986		225 596	336 095	162 450	51 606	31 626	19 982	46 172	558	75 307	75 074	35 425
1987		233 087	351 103	170 919	51 800	31 314	20 486†	47 989	790†	79 599	80 794	37 222
1981	2	49 654	70 421†	34 454	12 305†	7 597†	4 708	9 370	-1 027	15 319†	13 438	7 329†
	3	49 116†	71 829	34 315†	12 363	7 595	4 768	9 406	-260	16 003	15 070	7 643
	4	49 785	71 937	34 434	12 196	7 488	4 708	9 476	-52	15 913	14 634	7 508
1982	1	49 974	72 112	34 248	12 416	7 691	4 725	9 395	486	15 567	14 555	7 583
	2	50 038	72 676	34 368	12 295	7 567	4 728	9 787	317	15 909	15 053	7 585
	3	49 744	72 081	34 855	12 347	7 582	4 765	10 113	-818	15 584	14 708	7 629
	4	50 668	72 981	35 341	12 507	7 655	4 852	10 298	-1 023	15 858	14 571	7 742
1983	1	51 879	74 834	35 566	12 561	7 727	4 834	10 402	356	15 949	15 142	7 813
	2	51 246	74 464	35 919	12 689	7 804	4 885	10 095	-17	15 778	15 401	7 817
	3	52 105	75 843	36 463	12 616	7 774	4 842	10 263	352	16 149	15 797	7 941
	4	52 402	76 656	36 531	12 689	7 782	4 907	10 863	37	16 536	16 288	7 966
1984	1	52 976	77 318	36 502	12 652	7 753	4 899	11 177†	177	16 810	16 272	8 070
	2	52 203	77 446	37 045	12 736	7 836	4 900	11 151	-241	16 755	17 036	8 207
	3	52 550	78 133	36 773	12 830	7 904	4 926	11 282	-20	17 288	17 407	8 176
	4	53 652	79 921	37 367	12 786	7 912	4 874	11 328	389	18 051	18 013†	8 256
1985	1	54 735	80 939	37 776	12 780	7 922	4 858	12 201	-60	18 242	17 822	8 382
	2	55 132	80 921	37 847	12 782	7 852	4 910	11 258	574	18 480	17 454	8 335
	3	55 016	81 007	38 677	12 704	7 857	4 847	11 493	180	17 953	17 450	8 541
	4	54 970	81 375	38 987	12 804	7 893	4 911	11 335	-35	18 284	17 882	8 523
1986	1	56 170	82 572	39 697	12 862	7 942	4 920	11 507	443	18 183	17 861	8 641
	2	56 052	83 116	40 498	12 832	7 878	4 954	11 188	-59	18 657	18 249	8 815
	3	55 786	84 008	40 974	12 897	7 886	5 011	11 664	-278	18 751	19 284	8 938
	4	57 588	86 299	41 281	13 017	7 920	5 097	11 813	452	19 736	19 680	9 031
1987	1	57 869	85 702	41 495	12 920	7 860	5 060†	11 818	-185†	19 654	18 710	9 023
	2	57 204	86 152	42 275	12 802	7 747	5 055	11 680	-66	19 461	19 724	9 224
	3	58 485	89 033	43 288	12 928	7 841	5 087	11 861	828	20 128	21 062	9 486
	4	59 429	90 216	43 861	13 150	7 866	5 284	12 630	219	20 356	21 298	9 489
1988	1	59 471	89 785	44 444	12 994	7 728	5 266	13 089	15	19 243	20 833	9 481
		Percentage change, quarter on corresponding period of previous year										
1983	1	+3.8	+3.8	+3.8	+1.2	+0.5	+2.3	+10.7	..	+2.5	+4.0	+3.0
	2	+2.4	+2.5	+4.5	+3.2	+3.1	+3.3	+3.1	..	-0.8	+2.3	+3.1
	3	+4.7	+5.2	+4.6	+2.2	+2.5	+1.6	+1.5	..	+3.6	+7.4	+4.1
	4	+3.4	+5.0	+3.4	+1.5	+1.7	+1.1	+5.5	..	+4.3	+11.8	+2.9
1984	1	+2.1	+3.3	+2.6	+0.7	+0.3	+1.3	+7.5	..	+5.4	+7.5	+3.3
	2	+1.9	+4.0	+3.1	+0.4	+0.4	+0.3	+10.5	..	+6.2	+10.6	+5.0
	3	+0.9	+3.0	+0.9	+1.7	+1.7	+1.7	+9.7	..	+7.1	+10.2	+3.0
	4	+2.4	+4.3	+2.3	+0.8	+1.7	-0.7	+4.3	..	+9.2	+10.6	+3.6
1985	1	+3.3	+4.7	+3.5	+1.0	+2.2	-0.8	+9.2	..	+8.5	+9.5	+3.9
	2	+5.6	+4.5	+2.2	+0.2	+0.2	+0.2	+1.0	..	+10.3	+2.5	+1.6
	3	+4.7	+3.7	+5.2	-1.0	-0.6	-1.6	+2.1	..	+3.8	+0.2	+4.5
	4	+2.5	+1.8	+4.3	+0.1	-0.2	+0.8	+0.1	..	+1.3	-0.7	+3.2
1986	1	+2.6	+2.1	+5.1	+0.6	+0.3	+1.3	-5.7	..	-0.4	+0.2	+3.1
	2	+1.7	+2.7	+6.9	+0.5	+0.3	+0.9	-0.6	..	+1.0	+4.6	+5.8
	3	+1.4	+3.7	+5.9	+1.5	+0.4	+3.4	+1.5	..	+4.4	+10.5	+4.6
	4	+4.8	+6.1	+5.9	+1.7	+0.3	+3.8	+4.2	..	+7.9	+10.1	+6.0
1987	1	+3.2	+3.7	+4.5	+0.5	-1.0	+2.8	+2.7	..	+8.2	+4.8	+4.4
	2	+2.1	+3.7	+4.4	-0.2	-1.7	+2.0	+4.4	..	+4.3	+8.1	+4.6
	3	+4.8	+6.0	+5.6	+0.2	-0.6	+1.5	+1.7	..	+7.3	+9.2	+6.1
	4	+3.2	+4.5	+6.3	+1.0	-0.7	+3.7	+6.9	..	+3.1	+8.2	+5.1
1988	1	+2.6	+4.8	+7.1	+0.6	-1.7	+4.1	+10.8	..	-2.1	+11.3	+5.1

1 For years up to and including 1977, totals differ from the sum of the components because of the method used to rebase on 1980 prices.

Expenditure on the gross domestic product

1980 prices seasonally adjusted
percentage change on year earlier



Personal disposable income and consumption

		Seasonally adjusted							
		£ million, current prices				Percentage	1980 prices		
		Personal income before tax							
		Total(1)	of which: Wages, salaries and forces pay	Total personal disposable income(2)	Consumers' expenditure(3)	Personal saving ratio(4)	Real personal disposable income(5) £ million*	Real personal disposable income(5) 1980 = 100	Real consumers' expenditure(3) £ million
		AIIQ	AIJB	AIIW	AIIX	AIIZ	CFAH	CFAF	CAAB
1984		279 008†	155 067†	220 481†	196 981†	10.7	165 306†	103.1	147 687†
1985		300 690	168 336	237 348	215 052	9.4†	169 179	105.5	153 287
1986		323 415	182 103	254 693	236 472	7.2	174 967	109.1†	162 450
1987		346 950	197 753	272 322	257 498	5.4	180 759	112.7	170 919
1984	2	69 029†	38 250†	54 509†	49 140†	9.8	41 093†	102.5	37 045†
	3	69 884	38 875	55 208	49 298	10.7	41 182	102.7	36 773
	4	72 034	40 184	56 954	50 688	11.0	41 987	104.8†	37 367
1985	1	72 879	40 791	57 578	52 107	9.5	41 740	104.1	37 778
	2	74 467	41 630	58 967	52 817	10.4†	42 252	105.4	37 847
	3	75 906	42 620	59 661	54 511	8.6	42 329	105.6	38 677
	4	77 438	43 295	61 142	55 617	9.0	42 858	106.9	38 987
1986	1	78 765	44 188	62 148	57 150	8.0	43 165	107.7	39 697
	2	80 312	45 184	63 317	58 498	7.6	43 831	109.4	40 498
	3	81 367	45 867	64 130	59 810	6.7	43 930	109.6	40 974
	4	82 971	46 864	65 098	61 014	6.3	44 041	109.9	41 281
1987	1	84 573	47 547	66 499	61 986	6.8	44 512	111.1	41 495
	2	85 286	48 894	67 261	63 073	6.2	45 078	112.5	42 275
	3	87 193	49 898	68 371	65 331	4.4	45 298	113.0	43 288
	4	89 898	51 414	70 191	67 108	4.4	45 871	114.4	43 861
1988	1	92 750	52 663	72 434	68 570	5.3	46 948	117.1	44 444

1 Before providing for depreciation and stock appreciation.
2 Before providing for depreciation, stock appreciation and additions to tax reserves.
3 The table below may show more up to date figures for consumers' expenditure.
4 Personal saving as a percentage of personal disposable income.
5 Personal disposable income revalued by the implied consumers' expenditure deflator (1980 = 100).

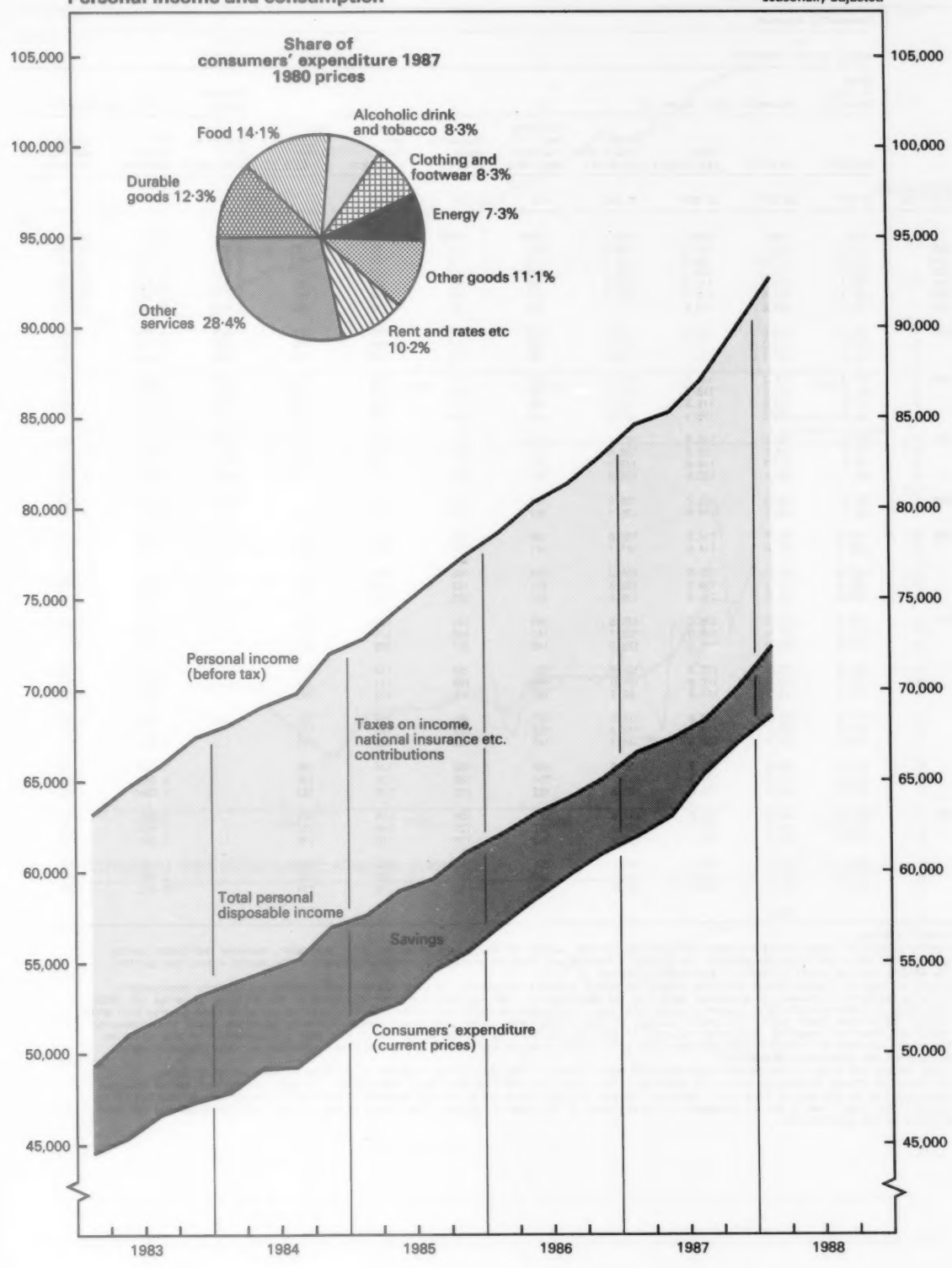
Real consumers' expenditure - component categories

		Seasonally adjusted								
		£ million, 1980 prices								
				Other goods					Other services	
		Total	Durable goods: total	Food	Alcoholic drink and tobacco	Clothing and footwear	Energy products	Other goods	Rent and rates etc.	Other services(1)
		CAAB	CDBW	CCCA	FCCD	FCCE	CCCG	CCCM	CCCN	CCCJ
1984		147 652	16 700	22 891	13 926	11 562	11 329	15 851	16 953	38 440
1985		153 381	17 878	23 275	14 061	12 365	11 840	16 542	17 118	40 302
1986		162 569	19 628	24 174	14 028	13 279	12 317	17 567	17 290	44 286
1987		171 032	20 959	24 064	14 213	14 191	12 454	19 018	17 514	48 619
1983	4	36 531†	4 189†	5 841	3 482	2 789	2 784	3 829	4 199	9 408†
1984	1	36 502	4 122	5 771	3 501	2 784	2 856	3 859	4 217	9 392
	2	37 045	4 245	5 760	3 473	2 857	2 813	3 983	4 233	9 681
	3	36 773	4 028	5 639	3 479	2 935	2 805	3 989	4 247	9 651
	4	37 367	4 303	5 721	3 473	2 986	2 855	4 020	4 256	9 753
1985	1	37 778	4 325	5 712	3 508	3 041	2 907	4 075	4 263	9 947
	2	37 847	4 317	5 798	3 505	3 087	2 930	4 114	4 274	9 822
	3	38 677	4 579	5 888	3 507	3 120	3 000	4 152	4 286	10 146
	4	38 987	4 537	5 877	3 543	3 117	3 003	4 201	4 296	10 413
1986	1	39 697	4 613	5 968†	3 476	3 236	3 083	4 251†	4 305	10 767
	2	40 498	4 871	6 040	3 518	3 283	3 083	4 327	4 315	11 061
	3	40 974	5 086	6 109	3 510	3 364	3 088	4 446	4 327	11 044
	4	41 281	5 036	6 047	3 524	3 396	3 063	4 547	4 343	11 325
1987	1	41 495	4 964	5 924	3 506†	3 383	3 118	4 591	4 358	11 651
	2	42 275	5 092	5 982	3 569	3 502	3 020	4 691	4 372	12 037
	3	43 288	5 501	6 204	3 585	3 620	3 116	4 823	4 386	12 053
	4	43 861	5 380	6 158	3 618	3 666	3 200	4 889	4 398	12 522
1988	1	44 444	5 525	6 199	3 649	3 638†	3 193†	5 025	4 410	12 807

1 Including the adjustments for international travel, etc. and final expenditure by private non-profit-making bodies.

Personal income and consumption

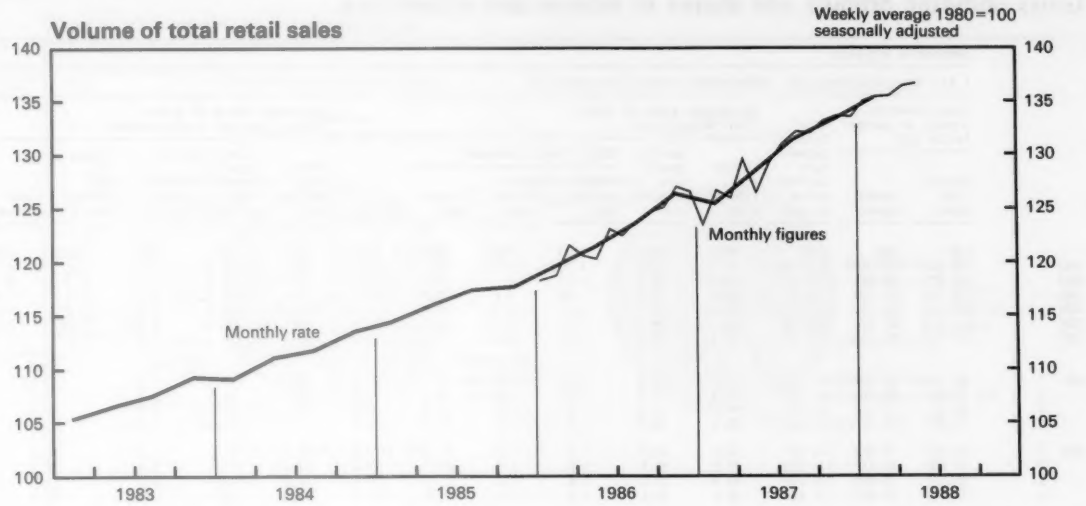
£ million
seasonally adjusted

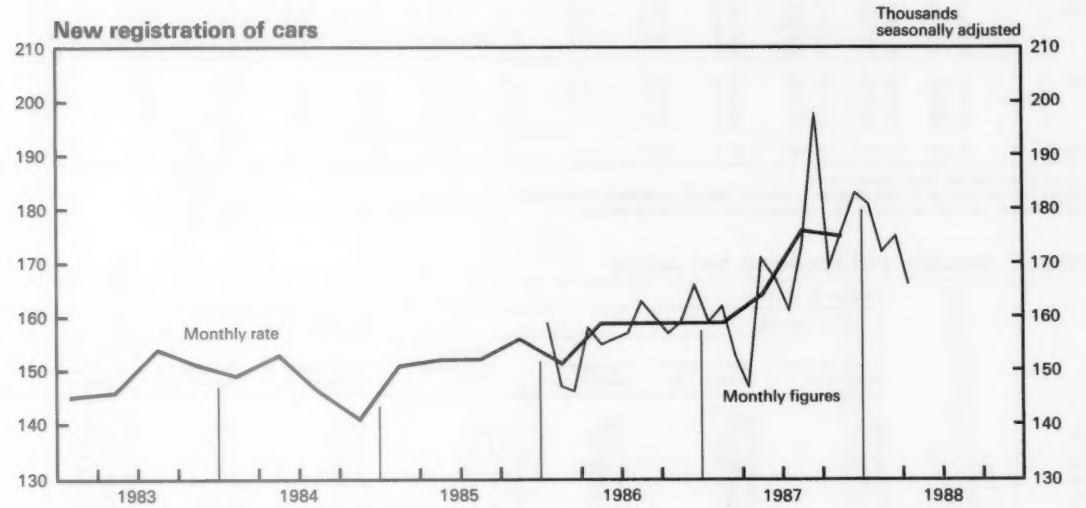


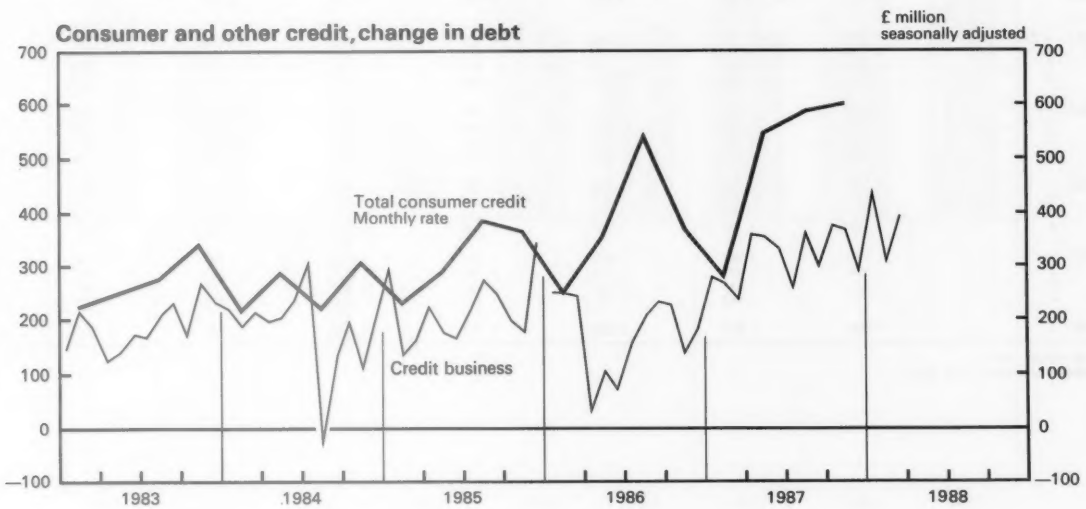
Retail sales, new registrations of cars and credit business (Great Britain)

		Seasonally adjusted										
		Weekly average 1980=100							Thousands(1)	£ million		
		Value of retail Sales(2)	Volume of retail sales (2)							Consumer credit	Credit business(3)	
		Total(4)	Total(4)	Food retailers(4)	Mixed retail businesses(4)	Clothing and footwear retailers	Household goods retailers	Other non-food retailers	New registrations of cars*(5)	Change in total outstanding	New credit advanced	Change in amounts outstanding
Sales in 1980 £ million		58 377	58 377	22 859	10 945	5 413	9 234	9 926				
		FAAL	FAAM	FAAN	FAAO	FAAP	FAAQ	FAAR	DKBY	AIKM	AGTU	AGTM
1982		117.1	102.1	101.5	108.3†	101	108	99	132	2 600	9 087	+1 446
1983		127.9	107.4	105.0	111.2	110	118	100	150	3 280	10 524	+2 246
1984		138.2	111.3	106.9	116.7	119	126	103	147	3 094	11 507	+2 159
1985		150.4	116.4	110.8	123.6	128	135	105	154	3 805	12 986	+2 586
1986		162.9	122.6	114.4	131.1	137	150	107	157	4 571	31 546	+2 953
1987		176.4	129.8	118.8		148	162	113	168	6 029†	39 090	+4 868
1985	2	149.3	116.0	110.5	117.2	127	133	105	152	880	3 095†	+558†
	3	152.4	117.3	111.7	117.9	128	137	105	156	1 152	3 376	+733
	4	154.0	117.7	111.7	116.8	130	140	106	156	1 089	3 438	+718
1986	1	157.4	119.4	113.5	120.2	132	141	105	151	749	4 560	+737
	2	161.0	121.5	113.9	121.2	136	149	106	159	1 070	4 551	+198
	3	164.9	123.6	114.3	125.6	138	153	108	159	1 630	4 774	+591
	4	168.9	126.3	116.1	127.5	140	159	110	159	1 122	4 745	+537
1987	1	169.6	125.5	116.8	127.6	140	154	109	159	828†	4 993	+784
	2	173.9	128.6	118.0	128.5	146	161	113	164	1 641	5 547	+1 047
	3	178.8	131.7	119.6	133.0	150	167	115	176	1 753	5 866	+919
	4	183.1	133.4	120.6	135.5	154	168	117	175	1 809	6 067	+1 029
1988	1	187.2	135.3	123.2	136.8	154	172	117		635	6 421	+1 144
	2	190.7	136.7	124.6	135.1	154	175	121			6 937	+1 184
1986	A	165.0	123.7	114.2	126.9	139	153	107	163	..	1 583	+201
	S	166.3	124.6	114.9	127.1	141	154	108	160	..	1 621	+233
	O	167.0	125.0	115.9	126.3	139	155	109	157	..	1 610	+224
	N	169.8	127.1	116.5	130.3	141	159	110	159	..	1 522	+134
	D	169.6	126.7	115.9	126.2	142	163	111	166	..	1 613	+179
1987	J	167.4	123.6	118.0	125.5	139	144	107	159	..	1 542	+280
	F	171.1	126.8	116.5	128.7	142	158	111	162	..	1 679	+267
	M	170.0	126.0	116.2	128.3	140	157	109	153	..	1 772	+237
	A	175.8	129.9	119.6	131.6	151	158	114	147	..	1 817	+359
	M	171.0	126.3	116.8	124.5	142	159	111	171	..	1 808	+356
	J	174.8	129.3	117.8	129.2	147	165	113	167	..	1 922	+332
	J	177.4	131.0	118.8	134.0	151	165	114	161	..	1 886	+256
	A	179.2	132.1	119.7	132.3	152	169	115	173	..	1 950	+366
	S	179.8	132.0	120.3	132.7	149	168	116	198	..	2 030	+297
	O	181.9	133.0	120.7	136.6	155	166	114	169	..	1 972	+378
	N	183.4	133.6	120.3	137.7	154	168	116	176	..	2 060	+368
	D	183.9	133.5	120.8	132.8	152	170	119	183	..	2 035†	+283
1988	J	186.8	134.9	123.6	137.5	151	169	118	181	..	2 036	+431†
	F	187.0	135.3	123.1	135.3	157	172	118	172	..	2 151	+313
	M	187.6	135.5	123.1	137.4	153	175	116	175	..	2 234	+400
	A	189.6	136.4	125.2	135.1	151	173	122	166	..	2 149	+283
	M	190.9	136.8	124.0	132.9	156	177	122	193	..	2 345	+472
	J	191.4	136.8	124.5	136.9	156	175	119	174	..	2 443	+429
	J		139.5							..		

1 Monthly averages.
2 Monthly figures of retail sales are based on four-week periods, except for the months of March, June, September, December and exceptionally January 1986 which are five-week periods. The quarterly indices are weighted averages of monthly indices for the months within the quarter. The weights are the number of weeks in each monthly period.
3 Credit business of finance houses and other specialist credit grantors (excluding loans for dealer stock funding and property development), Building Societies in respect of unsecured loans from the beginning of 1987 (as permitted under the terms of the Building Societies Act 1986), retailers, ie clothing retailers, household goods retailers, mixed business retailers (other than co-operative societies) and general mail order houses, and on bank credit cards. The credit business of High Street Banks (other than credit cards), Building Societies (other than unsecured loans) and insurance companies is outside the scope of these series. There is a break at the end of 1985 when the collection of statistics on the credit business of finance houses and other specialist credit grantors was widened to include credit extended on running-account agreements and block discounted agreements.
4 These indices are given to one decimal place but this does not imply that they can be regarded as accurate to the last digit shown.
5 Following the change in taxation policy for goods vehicles, effective from 1 October 1982, the previous 'private car and van' series has been substituted by an analysis of cars in all taxation classes. Although there are slight differences in the monthly counts between the two series this will not significantly affect movements in the estimates of the underlying trend. The timing of the cyclical turning points has not been affected by the substitution.


Volume of total retail sales
Weekly average 1980=100
seasonally adjusted
140
135
130
125
120
115
110
105
100
Monthly rate
Monthly figures
1983
1984
1985
1986
1987
1988


New registration of cars
Thousands
seasonally adjusted
210
200
190
180
170
160
150
140
130
Monthly rate
Monthly figures
1983
1984
1985
1986
1987
1988


Consumer and other credit, change in debt
£ million
seasonally adjusted
700
600
500
400
300
200
100
0
—100
Total consumer credit
Monthly rate
Credit business
1983
1984
1985
1986
1987
1988

Gross domestic product and shares of income and expenditure

Seasonally adjusted

		£ million			Per cent										
		Gross domestic product at current factor cost		Total final expenditure (current market prices)	Percentage share of total final expenditure						Percentage share of gross domestic product (income based)				
							Gross fixed investment					Gross trading profits		Income from self-employment(1)	
		Expenditure based	Income based		Consumers' expenditure	General government consumption	General government	Public corporations	Private sector	Exports	Income from employment	Companies(1)	Other (1,2)		Other income(3)
		DJBA	DJBE	DIAB	FBBD	FBBE	FBBF	FBBG	FBBH	FBBI	FBBJ	FBBK	FBBL	FBBM	FBBN
1982		236 340†	239 326†	345 176†	48.7	17.5	1.2	2.0	9.7	21.1	66.3	12.4	3.8	9.0	8.4
1983		258 921	260 905	379 709	48.4	17.4	1.5	2.1	9.2	21.2	65.0	13.9	3.7	9.2	8.1
1984		276 418	279 394	414 191	47.6	16.9	1.5†	1.8	9.9	22.2	64.4	15.1	2.8	9.7	7.9†
1985		304 139	304 962	452 800	47.5	16.4	1.4	1.2	10.6	22.6	63.7	16.6	2.3	9.4	7.9
1986		321 218	323 982	478 756	49.4	16.6	1.5	1.1	10.6	20.6	64.5†	15.3†	2.5	9.8†	7.9
1987		347 742	355 216	521 121	49.4	16.3	1.3	0.8†	11.1†	20.7	63.5	17.1	1.8	9.9	7.7
														FBBO	
1984	1	68 118†	68 182†	100 179†	47.8	16.8	1.6	2.0	9.8	21.9	64.5	14.5†	3.5	17.5†	
	2	67 752	68 704	101 466	48.4	17.0	1.5†	1.8	9.8	21.8	64.7	14.6	2.9	17.8	
	3	68 921	70 370	104 161	47.3	17.0	1.6	1.8	10.0	22.2	64.1	15.5	2.7	17.7	
	4	71 627	72 128	108 385	46.8	16.7	1.5	1.6	10.0	23.0	64.5	15.9	2.0	17.7	
1985	1	74 091	73 859	112 067	46.5	16.3	1.3	1.3	11.1	23.4	63.9	17.0	1.8	17.4	
	2	75 688	75 912	112 670	46.9	16.4	1.5	1.3	10.1	23.4	63.4†	17.1	2.3	17.2	
	3	76 417	76 834	112 931	48.3	16.3	1.5	1.3	10.6	21.9	64.0	16.0	2.7	17.2	
	4	77 943	78 357	114 932	48.4	16.5	1.5	1.1	10.6	21.9	63.7	16.5	2.5	17.4	
1986	1	79 182	79 652	117 083	48.8†	16.6	1.6	1.2	10.5	21.0	63.9	16.2	2.5	17.5	
	2	79 410	80 067	117 431	49.8	16.8†	1.5	1.2	10.3	20.5	64.8	14.8	2.7	17.7	
	3	79 681	81 361	119 550	50.0	16.6	1.4	1.1	10.9	20.0	64.7	15.1	2.4	17.8	
	4	82 945	82 902	124 692	48.9	16.4	1.5	1.1	10.8	20.8	64.7	15.0	2.5	17.8	
1987	1	84 442	85 304	125 205	49.5	16.4	1.5	1.0	10.7†	21.0	63.7	16.9	1.7†	17.7	
	2	85 167	87 974	127 231	49.6	16.5	1.3	0.7	11.2	20.7†	63.5	17.2	1.8	17.5	
	3	87 868	90 279	132 917	49.2	16.1	1.2	0.9	10.9	20.8	63.1	17.6	1.8	17.6	
	4	90 265	91 659	135 768	49.4	16.4	1.4	0.8†	11.5	20.2	63.9	16.6	1.8	17.6	
1988	1	91 251	93 876	136 068	50.4	16.3	1.5	0.9	12.1	18.8	63.8	16.8	1.7	17.6	

1 After providing for stock appreciation.
2 Gross trading surplus of public corporations and general government enterprises.
3 Rent income, and imputed charge for consumption of non-trading capital.

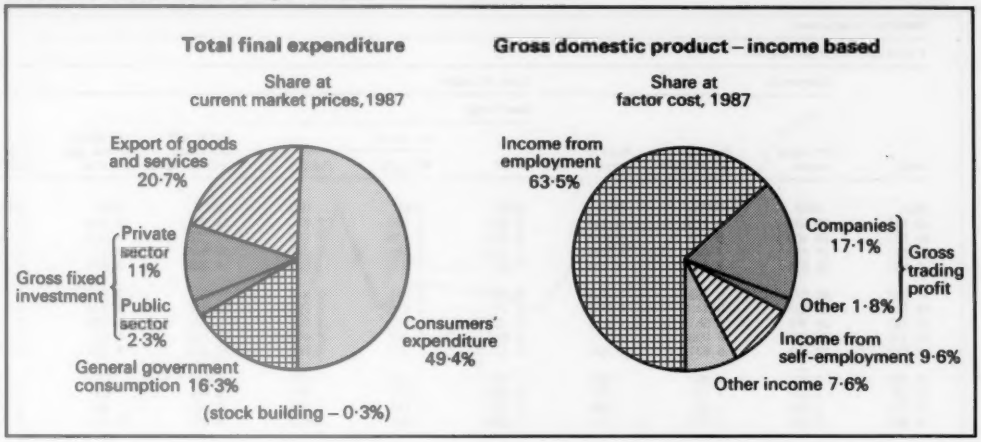
Income, product and spending per capita

Seasonally adjusted

		£, current prices				£, 1980 prices		
		Gross national product(1)	Gross domestic product(1,2)	Consumers' expenditure	Personal disposable income	Gross domestic product(1,2)	Consumers' expenditure	Personal disposable income
		FBCA	FBCB	FBCC	FBCD	FBCE	FBCF	FBCH
1982		4 218	4 195	2 985	3 398	3 558†	2 464	2 805
1983		4 640†	4 593†	3 261	3 647†	3 683	2 563†	2 865
1984		4 972	4 893	3 487†	3 903	3 742	2 614	2 926
1985		5 422	5 372	3 798	4 192	3 883	2 707	2 988†
1986		5 748	5 659	4 166	4 487	3 974	2 862	3 082
1987		6 222	6 121	4 533	4 794	4 103	3 009	3 182
								CAIU
1984	1	1 222†	1 207	848	953	939	646	727
	2	1 216	1 199†	870	985	924	656	728†
	3	1 237	1 220	872	977	930	651	729
	4	1 297	1 267	897†	1 008	949	681	742
1985	1	1 326	1 310	921	1 018	968†	668	738
	2	1 350	1 337	933	1 042†	974	668†	747
	3	1 384	1 349	963	1 053	971	683	747
	4	1 382	1 376	981	1 079	970	688	756
1986	1	1 413	1 396	1 008	1 096	990	700	761
	2	1 420	1 399	1 031	1 116	988	713	772
	3	1 429	1 403	1 053	1 129	982	722	774
	4	1 486	1 461	1 074	1 146	1 014	727	775
1987	1	1 514	1 487	1 092	1 171	1 021	731	784
	2	1 524	1 499	1 110	1 184	1 007	744	794
	3	1 573	1 547	1 150	1 204	1 029	762	797
	4	1 611	1 588	1 181	1 235	1 046	772	807
1988	1	1 629	1 606	1 206	1 274	1 046	782	826

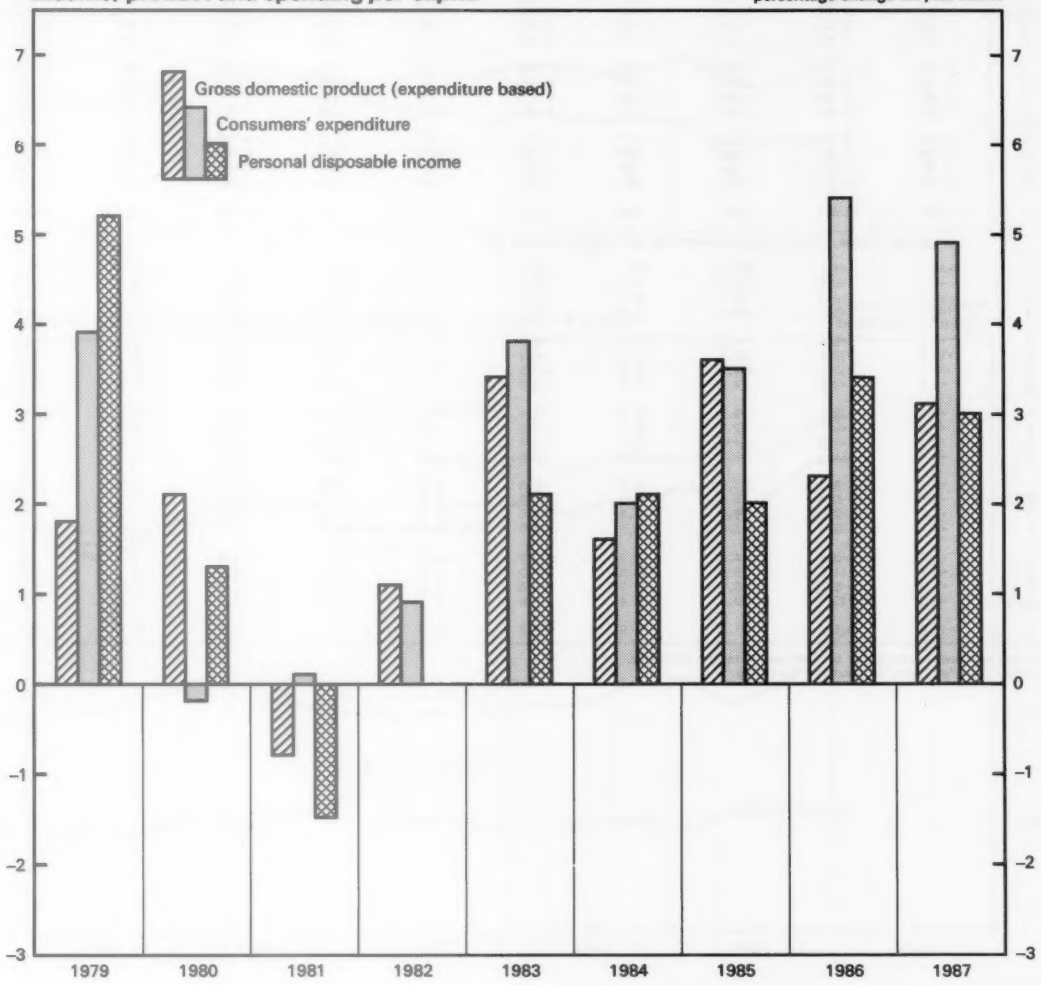
1 At factor cost.
2 Based on expenditure data.

Shares of income and expenditure



Income, product and spending *per capita*

1980 prices
percentage change on year earlier



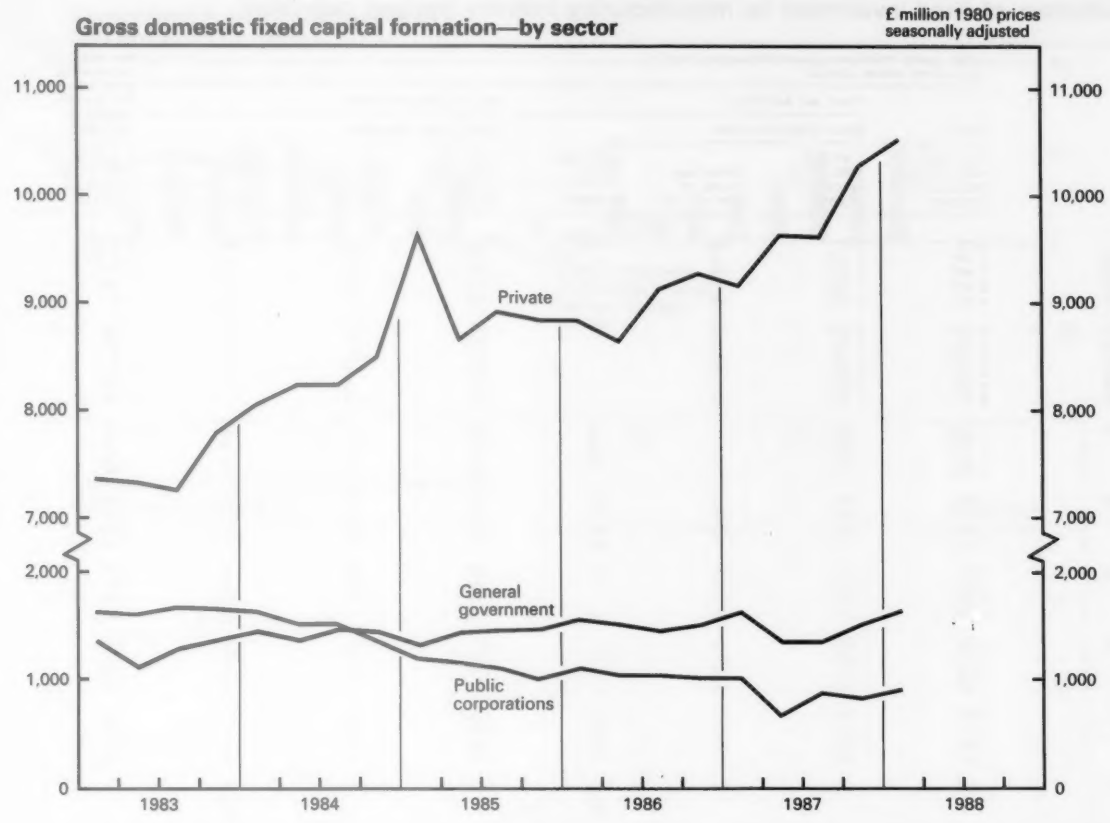
Gross domestic fixed capital formation by sector and by type of asset

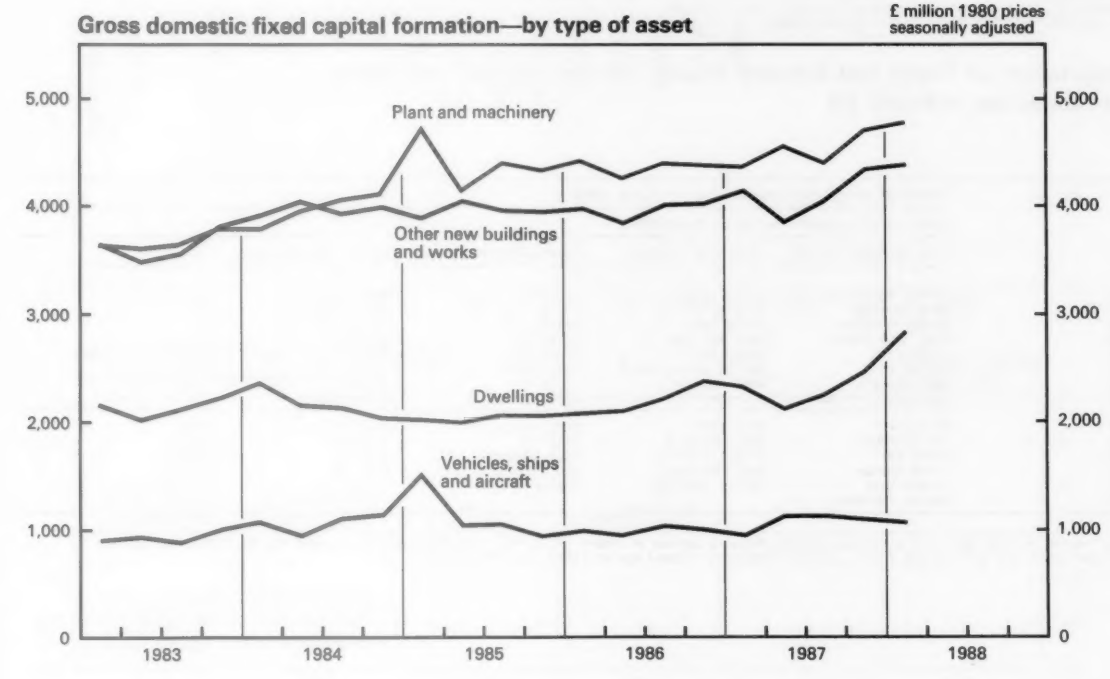
Seasonally adjusted

£ million, 1980 prices(1)

		Sector(2)			Type of asset					
					Dwellings					
		Total	Private sector	General government	Public corporations	Total	of which: Private	of which: Public	Other new building and works(3)	Vehicles, ships and aircraft	Plant and machinery
		DECJ	DFEB	DFED	DFDA	DFEG	DFEA	DFEC	DFCV	DEBP	DEBO
1979		43 913	30 689	6 425	6 799	9 363	6 470	2 893	14 093	5 448	15 011
1980		41 561	29 409	5 499	6 653	8 674	6 115	2 559	13 363	4 566	14 958
1981		37 571	27 433	4 046	6 092	7 180	5 455	1 725	12 944	3 551	13 896
1982		39 583	29 635	3 763	6 195	7 637	5 811	1 826	14 269	3 643	14 044
1983		41 623	29 811	5 159	6 653	8 584	6 244	2 340	14 512	3 756	14 771
1984		44 918	33 102	5 740	6 076	8 771	6 519	2 252	15 855	4 318	15 974
1985		46 287	36 124	5 651	4 512	8 183	6 180	2 003	15 868	4 568	17 668
1986		46 172	35 925	6 030	4 217	8 822	6 774	2 048	15 863	3 987	17 500
1987		47 988	38 743	5 837	3 409	9 191	7 222	1 969	16 411	4 329	18 058
1983	1	10 402	7 382	1 364	1 656	2 182	1 550	632	3 651	907	3 662
	2	10 095	7 339	1 125	1 631	2 039	1 511	528	3 491	937	3 628
	3	10 263	7 286	1 291	1 686	2 125	1 545	580	3 563	898	3 677
	4	10 863	7 804	1 379	1 680	2 238	1 638	600	3 807	1 014	3 804
1984	1	11 177	8 078	1 446	1 652	2 381	1 799	582	3 912	1 093	3 791
	2	11 151	8 253	1 381	1 517	2 176	1 618	557	4 032	966	3 978
	3	11 282	8 267	1 474	1 521	2 157	1 584	573	3 919	1 106	4 078
	4	11 328	8 503	1 439	1 386	2 058	1 518	540	3 992	1 151	4 127
1985	1	12 201	9 685	1 309	1 207	2 039	1 526	513	3 894	1 523	4 745
	2	11 258	8 672	1 413	1 173	2 009	1 523	486	4 050	1 043	4 156
	3	11 493	8 919	1 458	1 115	2 072	1 558	514	3 970	1 048	4 403
	4	11 335	8 848	1 470	1 017	2 063	1 573	490	3 954	954	4 364
1986	1	11 507	8 843	1 557	1 107	2 096	1 534	562	3 988	993	4 430
	2	11 166	8 640	1 502	1 048	2 105	1 622	483	3 946	962	4 275
	3	11 664	9 145	1 469	1 050	2 227	1 752	475	4 007	1 030	4 400
	4	11 813	9 297	1 502	1 014	2 394	1 866	528	4 022	1 002	4 395
1987	1	11 818	9 181	1 620	1 017	2 319	1 792	527	4 163	962	4 374
	2	11 680	9 646	1 354	680	2 126	1 665	461	3 850	1 132	4 572
	3	11 861	9 625	1 351	885	2 267	1 822	445	4 056	1 135	4 403
	4	12 630	10 291	1 512	827	2 479	1 943	536	4 342	1 100	4 709
1988	1	13 089	10 537	1 647	905	2 834	2 307	527	4 396	1 072	4 787
		Percentage change, quarter on corresponding quarter of previous year									
1983	1	+10.7	+4.5	+66.5	+9.7	+25.8	+18.1	+49.4	+7.1	+5.7	+8.0
	2	+3.1	-0.8	+25.8	+9.1	+6.6	+1.7	+23.7	+0.2	+9.5	+2.7
	3	+1.5	-4.0	+34.1	+8.2	+13.3	+8.0	+30.6	-2.9	-11.1	+3.3
	4	+5.5	+3.0	+26.9	+2.9	+5.9	+3.5	+12.8	+2.8	+10.3	+6.9
1984	1	+7.5	+9.4	+6.0	-0.2	+9.1	+16.1	-7.9	+7.1	+20.5	+3.5
	2	+10.5	+12.5	+22.8	-7.0	+6.7	+7.1	+5.5	+15.5	+3.1	+9.6
	3	+9.7	+13.5	+14.2	-9.8	+1.5	+2.5	-1.2	+10.0	+23.4	+10.9
	4	+4.3	+9.0	+4.4	-17.5	-8.0	-7.3	-10.0	+4.9	+13.5	+8.5
1985	1	+9.2	+19.9	-9.5	-26.9	-14.4	-15.2	-11.9	-0.5	+39.3	+25.2
	2	+1.0	+5.1	+2.3	-22.7	-7.6	-5.9	-12.7	+0.4	+8.0	+4.5
	3	+2.1	+7.9	-1.0	-26.7	-3.9	-1.6	-10.3	+1.3	-5.4	+8.0
	4	+0.1	+4.1	+2.2	-26.6	+0.2	+3.6	-9.3	-1.0	-17.1	+5.7
1986	1	-5.7	-8.7	+18.9	-8.3	+2.8	+0.5	+9.6	+2.4	-34.8	-6.6
	2	-0.8	-0.4	+8.3	-10.8	+4.8	+8.5	-0.6	-5.0	-7.8	+2.9
	3	+1.5	+2.5	+0.7	-5.8	+7.5	+12.5	-7.6	+0.9	-1.7	-0.1
	4	+4.2	+5.1	+2.2	-0.3	+16.0	+18.6	+7.8	+1.7	+5.0	+0.7
1987	1	+2.7	+3.8	+4.0	-8.1	+10.8	+16.8	-6.2	+4.4	-3.1	-1.3
	2	+4.4	+11.6	-9.9	-35.0	+1.0	+2.7	-4.6	+0.1	+17.7	+6.9
	3	+1.7	+5.2	-8.0	-15.7	+1.8	+4.0	-6.3	+1.2	+10.2	+0.1
	4	+6.9	+10.7	+0.7	-18.4	+3.6	+4.1	+1.5	+8.0	+9.8	+7.1
1988	1	+10.8	+14.8	+1.7	-11.0	+22.2	+28.7	-	+5.6	+11.4	+9.4

1 Including purchases less sales of land and existing buildings.
2 Including transfer costs of land and buildings.


Gross domestic fixed capital formation—by sector
£ million 1980 prices
seasonally adjusted
11,000
10,000
9,000
8,000
7,000
2,000
1,000
0
Private
General
government
Public
corporations
1983
1984
1985
1986
1987
1988


Gross domestic fixed capital formation—by type of asset
£ million 1980 prices
seasonally adjusted
5,000
4,000
3,000
2,000
1,000
0
Plant and machinery
Other new buildings
and works
Dwellings
Vehicles, ships
and aircraft
1983
1984
1985
1986
1987
1988

Indicators of fixed investment by manufacturing industry (revised definition)

		Gross fixed investment by manufacturing industry (excluding leased assets)							New orders received by contractors for private industrial work(GB)
		Total*	Plant and machinery			New building and works			
			Gross fixed investment		CBI Intentions Inquiry	Gross fixed investment		CBI Intentions Inquiry	
		£ million, 1980 prices, seasonally adjusted	£ million, 1980 prices, seasonally adjusted	Percentage change on year earlier	Balance(1)	£ million, 1980 prices, seasonally adjusted	Percentage change on year earlier	Balance(1)	£ million, 1980 prices, seasonally adjusted
		DECV	DFQP	FBAK	FBAD	DFQQ	FBAM	FBAG	DPBT
1978		7 221	5 319	+7	..	1 277	+13	..	2 241
1979		7 496	5 555	+4	..	1 305	+2	..	2 241
1980		6 478	4 959	-11	..	1 052	-19	..	1 803
1981		4 870	3 723	-25	..	769	-27	..	1 611
1982		4 709	3 648	-2	..	659	-14	..	1 364
1983		4 784	3 775	+3	..	586	-11	..	1 602
1984		5 749	4 436	+18	..	877	+51	..	2 227
1985		6 428	4 986	+12	..	1 038	+18	..	2 007
1986		6 329	4 946	-	..	1 005	-3	..	1 845
1987		6 741	5 153	+4	-	1 189	+18	-	3 119 (3)
1983	1	1 123	894	-	-5	136	-23	-28	422
	2	1 168	923	+1	6	141	-12	-15	376
	3	1 205	941	+2	18	155	-4	-5	438
	4	1 288	1 017	+11	12	154	-4	-8	365
1984	1	1 359	1 045	+17	20	192	+41	-5	543
	2	1 412	1 084	+18	21	216	+54	-3	543
	3	1 440	1 120	+19	14	220	+43	-5	526
	4	1 538	1 187	+17	18	249	+62	-5	615
1985	1	1 601	1 223	+18	11	268	+39	-8	544
	2	1 600	1 230	+13	14	268	+24	-3	641
	3	1 602	1 242	+11	-	253	+14	-21	425
	4	1 625	1 271	+7	4	249	-	-21	397
1986	1	1 605	1 276	+4	2	231	-14	-16	478
	2	1 515	1 203	-2	10	216	-20	-15	450
	3	1 640	1 261	+2	5	277	+10	-15	494
	4	1 569	1 206	-5	8	281	+14	-13	423
1987	1	1 617	1 240	-3	10	279	+20	-10	842
	2	1 717	1 300	+9	13	316	+48	-3	569
	3	1 686	1 287	+2	20	300	+10	1	1 446 (2)
	4	1 721	1 326	+7	17	294	+1	-3	462†
1988	1	1 747	1 337	+8	20	308	+10	1	872
	2				32†			6†	
	3				19			-8	

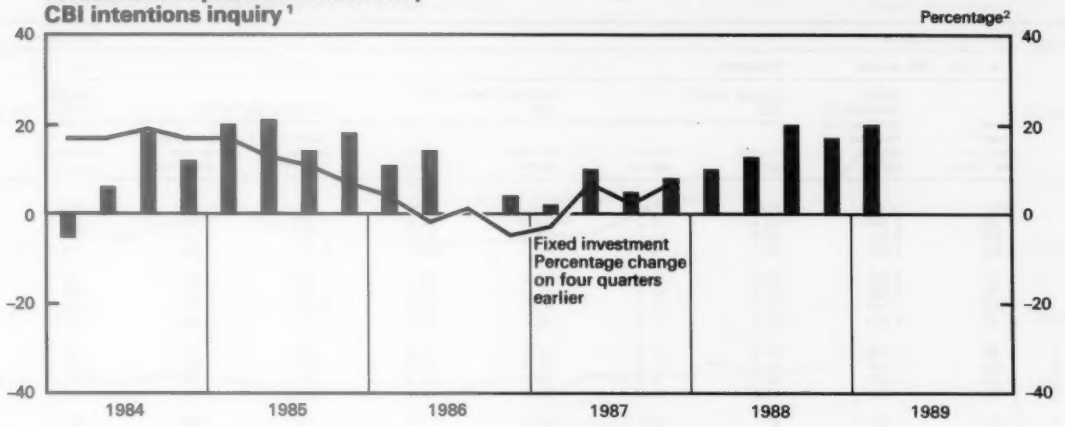
1 Percentage of firms expecting to authorise more in next 12 months less percentage expecting to authorise less.
2 Orders for third quarter 1987 include the Channel Tunnel project.
3 Orders for 1987 include the Channel Tunnel project.

Department of Trade and Industry inquiry into investment intentions: manufacturing industry (4)

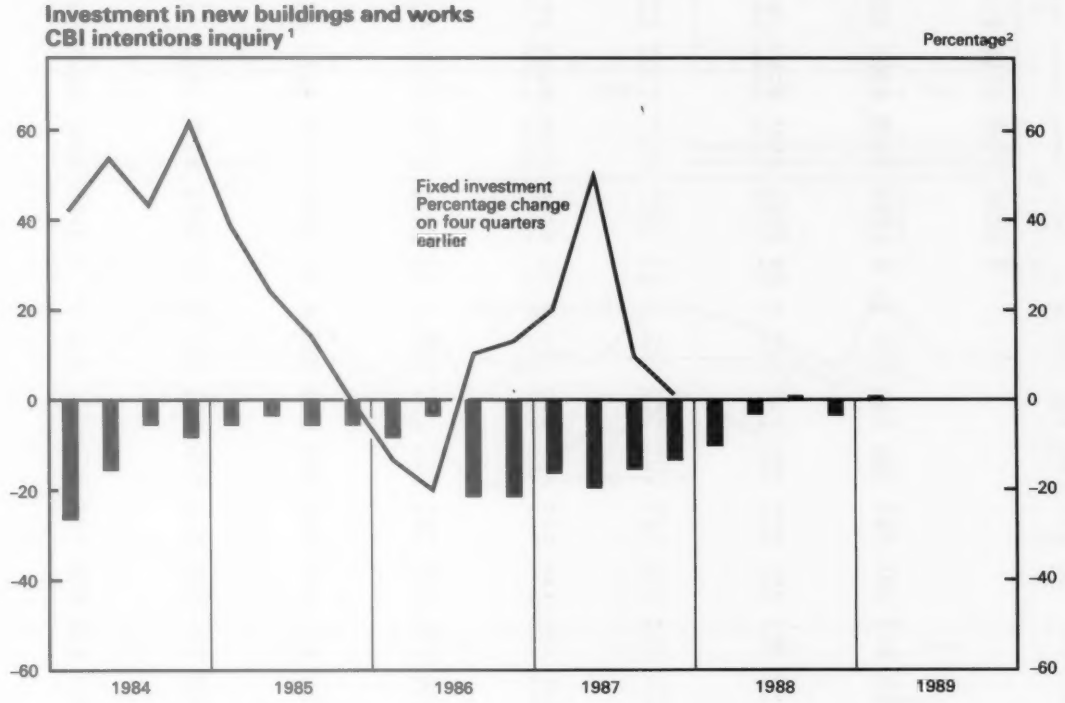
	Percentage change over previous year, in volume terms				
	Gross fixed investment (excluding leased assets)				
	First December Forecast	First June Forecast	Second December Forecast	Second June Forecast	Actual
1976	Further reduction	Little change	-5 to -8	About -8	-5
1977	Large increase	Of order of +15	+10 to +15	+6 to +10	+5
1978	Strong increase	+20 or more	+10 to +13	+10 to +13	+7
1979	Rise, less than +8	Rise less than +8	+4 to +8	+2 to +5	+4
1980	Slight fall	Slight fall	-6 to -10	-8 to -12	-14
1981	Further fall	Fall of up to 8 to 12	-15 to -20	-15 to -18	-25
1982	Some recovery	Some recovery	-1 to -3	-3 to -5	-3
1983	Appreciable increase	Rise, around 5	Fall, up to 5	Fall, around 4	+2
1984	No recovery	Slow growth	Rise, around 10	About +12	+20
1985	Little change	Rise, around 6	About +7	Around +9	+12
1986	Slight fall	Slight fall	Rise, around 4	About +6	-1
1987	Little change	Small increase	Rise, around 3	About +6	
1988	Further rise	Further increase	Rise,around 12		
1989	Smaller increase				

4 The figures in this table relate to manufacturing industry defined as Orders III to XIX, Standard Industrial Classification (1968) for 1983 and earlier years, and as Divisions 2 to 4, Standard Industrial Classification (1980) for 1984 onwards.

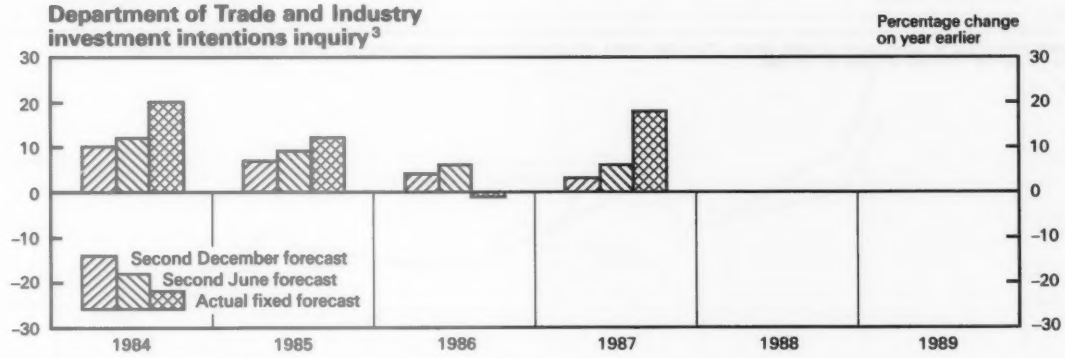
Investment in plant and machinery
CBI intentions inquiry[1]



Investment in new buildings and works
CBI intentions inquiry[1]



Department of Trade and Industry
investment intentions inquiry[3]



[1]The results of the CBI intentions inquiry have been moved forward one year for direct comparison with the percentage change in fixed investment

[2]Percentage of firms expecting to authorise more in next 12 months *less* percentage expecting to authorise less

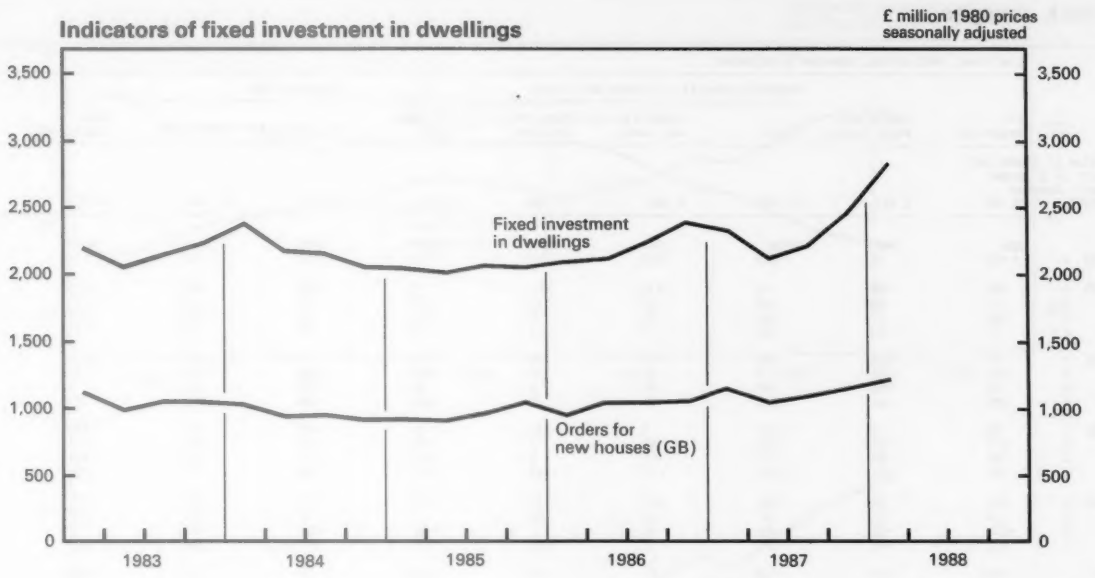
[3]See footnote[2] on page 18

Indicators of fixed investment in dwellings

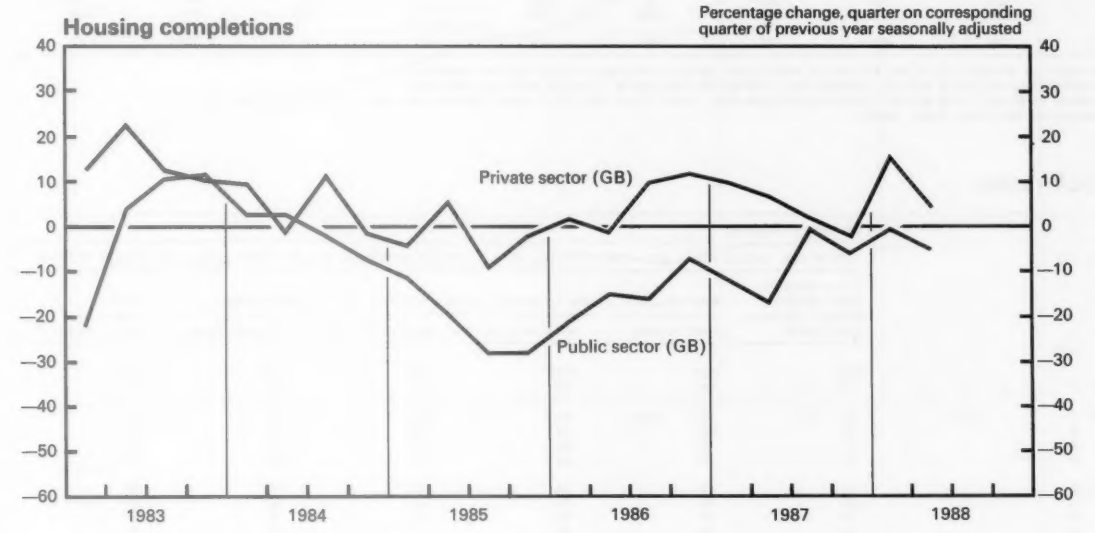
		Seasonally adjusted								Unadjusted
		£ million, 1980 prices		Thousands				£ million		1980 = 100
				Housing starts (GB)		Housing completions (GB)		Building societies		
		Fixed investment in dwellings	Orders received by contractors for new houses (GB)	Private sector	Public sector	Private sector	Public sector	Commitments on new dwellings	Advances on new dwellings	Average price of new dwellings: mortgages approved(1)
		DFEG	FCAS	FCAT	FCAU	FCAV	FCAW	AHLO	AHLS	FCAZ
1981		7 180	2 559	116.9	37.2	115.0	84.8	1 427	1 456	103
1982		7 637	3 551	140.8	52.9	124.8	50.2	1 931	1 716	105
1983		8 584	4 234	171.1	48.8	146.1	50.9	2 419	2 330	116
1984		8 771	3 826	156.9	39.9	157.2	50.7	2 980	2 900	125
1985		8 183	3 856	162.6	34.2	152.1	40.0	2 963	2 900	137
1986		8 822	4 110	176.1	33.0	183.1	34.8	3 626	3 517	160
1987		9 191	4 460	191.3	31.8	170.8	32.2	3 702	3 488	187
1983	1	2 182	1 114	45.3	15.2	34.3	12.3	594	562	112
	2	2 039	994	42.3	11.8	37.5	12.5	564	563	117
	3	2 125	1 062	40.7	9.8	36.0	13.0	585	587	118
	4	2 238	1 064	42.8	12.0	38.3	13.1	676	618	118
1984	1	2 381	1 032	40.7	12.4	40.0	12.5	735	689	121
	2	2 175	935	39.7	10.2	37.6	13.1	818	727	126
	3	2 157	950	38.6	9.3	40.5	12.8	704	757	128
	4	2 058	909	37.9	8.0	39.1	12.3	723	727	126
1985	1	2 039	911	37.3	8.5	37.9	11.3	717	715	131
	2	2 009	909	40.8	8.5	39.0	10.5	684	718	134
	3	2 072	973	41.3	8.4	36.9	9.4	738	697	138
	4	2 063	1 063	43.4	8.8	38.3	8.8	824	770	145
1986	1	2 096	960	41.2	8.1	38.5	9.0	823	809	149
	2	2 105	1 045	43.7	7.9	40.1	9.1	1 017	876	160
	3	2 227	1 044	46.7	8.8	41.3	8.1	967	924	165
	4	2 394	1 062	44.5	8.2	43.2	8.6	819	908	168
1987	1	2 319	1 167	47.6	8.1	42.5	7.6	824	850	174
	2	2 126	1 056	45.5	8.4	42.8	8.5	892	851	182
	3	2 267	1 095	48.1	7.6	43.2	8.2	968	881	191
	4	2 479	1 142	50.1	7.7	42.3	7.9	1 018	906	203
1988	1	2 834	1 223	56.8	7.7	49.1	7.6	1 284	1 123	219
	2			55.0	6.8	44.7	8.1	1 380	1 211	
1988	S	..	338	15.5	2.9	13.8	2.8	309	308	165
	O	..	358	15.4	3.2	13.9	2.8	289	316	166
	N	..	367	15.7	2.6	15.0	2.7	256	292	167
	D	..	336	13.4	2.4	14.3	3.1	274	300	169
1987	J	..	422	14.1	2.6	13.7	2.5	264	279	170
	F	..	403	17.7	2.8	14.4	2.8	274	282	173
	M	..	342	15.8	2.7	14.4	2.3	286	289	176
	A	..	340	14.8	2.7	14.3	2.8	297	295	179
	M	..	369	16.4	2.9	14.4	2.9	291	274	183
	J	..	347	14.3	2.8	14.1	2.8	304	282	182
	J	..	401	15.3	2.4	14.4	2.9	332	293	189
	A	..	343	16.2	2.5	14.7	2.5	323	284	193
	S	..	351	16.6	2.7	14.1	2.8	313	304	192
	O	..	357	14.7	2.5	14.2	2.7	335	306	199
	N	..	356	16.9	2.7	14.1	2.7	345	296	202
	D	..	429	18.5	2.5	14.0	2.5	338	304	208
1988	J	..	483	22.0	2.8	18.0	2.3	370	320	208
	F	..	437	18.0	3.0	16.4	2.7	434	378	216
	M	..	303	16.8	1.9	14.7	2.6	480	424	233
	A	..	370	18.8	2.4	15.7	2.9	445	379	228
	M	..	335	18.4	2.3	15.4	2.7	454	397	230
	J	..		17.8	2.1	13.6	2.5	481	435	236
	J	..								243

1 Mortgages with building societies by private owners. The index covers only dwellings on which building societies have approved mortgages during the period. The cost of land is included.

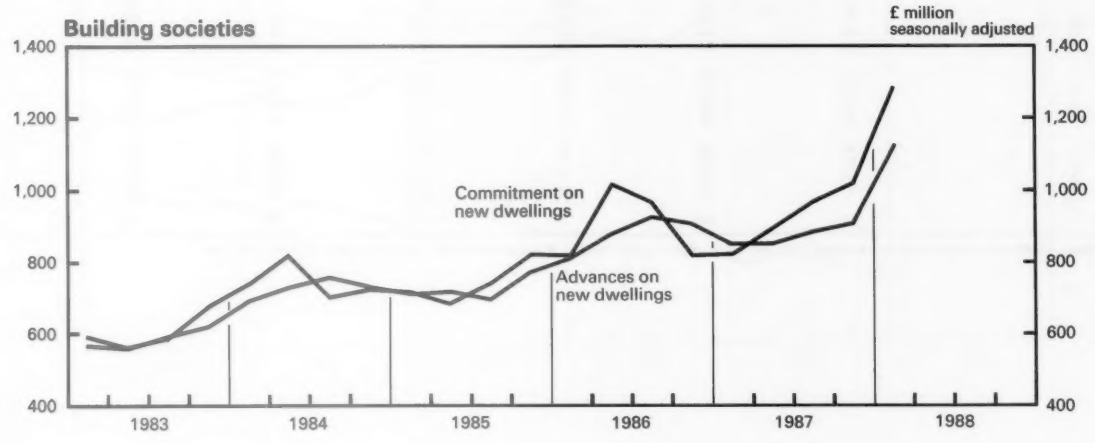
Indicators of fixed investment in dwellings



Housing completions



Building societies



Stock changes

£ million, 1980 prices, seasonally adjusted

		All industries	Energy and Water supply	Manufacturing(1) - revised definition: Total	Materials and fuels	Work in progress	Finished goods	Distribution: Wholesale(2)	Retail(3)	Other industries
Value of stocks and work in progress end - December 1987(4)		68 765	3 741	31 059	9 994	11 365	9 700	9 862	8 790	15 313
		DGBA	DHBQ	DHBW	DGAX	DGAY	DGAW	DHBO	DHBN	DHBR
1982	4	-1 023	26	-645	-305	-221	-119	-217	-173	-14
1983	1	356	148	-5	-210	211	-6	-183	-63	439
	2	-17	-68	-46	-57	-47	58	166	-116	47
	3	352	61	-283	-116	18	-186	49	148	377
	4	37	-139	202	127	-1	77	-89	22	41
1984	1	177	-233	136	-38	50	124	4	146	124
	2	-241	-213	7	61	115	-168	-43	48	-40
	3	-20	-146	157	96	5	56	58	-96	7
	4	389	-162	236	25	17	192	-39	299	55
1985	1	-60	-5	-212	2	-234	20	-76	-37	270
	2	574	-93	220	43	2	175	119	86	232
	3	180	-35	7	69	6	-68	-97	101	204
	4	-35	174	-421	-43	-288	-91	-68	44	236
1986	1	443	26	-235	-45	-117	-74	247	129	276
	2	-59	-72	91	25	65	1	-122	158	-114
	3	-278	-58	-83	-16	3	-69	-164	100	-73
	4	452	168	-179	-113	-50	-16	111	196	156
1987	1	-185†	-24	-140†	-27	-45†	-69†	42	43	-108†
	2	-86	-193†	43	86	28	-50	14	210	-140
	3	828	18	322	72	282	-12	102	298	88
	4	219	41	-246	30†	-278	2	12†	18	396
1988	1	15	-61	-27	68	-24	-71	36	40†	27

1 Differences between totals and the sum of constituent parts of manufacturing are due to rounding.
2 Classes 61-63 excluding activity heading 6148; wholesale distribution of motor vehicles and parts.
3 Classes 64-65 excluding activity headings 6510 and 6520; retail distribution of motor vehicles and parts, and filling stations.
4 Unadjusted 1980 price stock levels.

Stock ratios

Seasonally adjusted

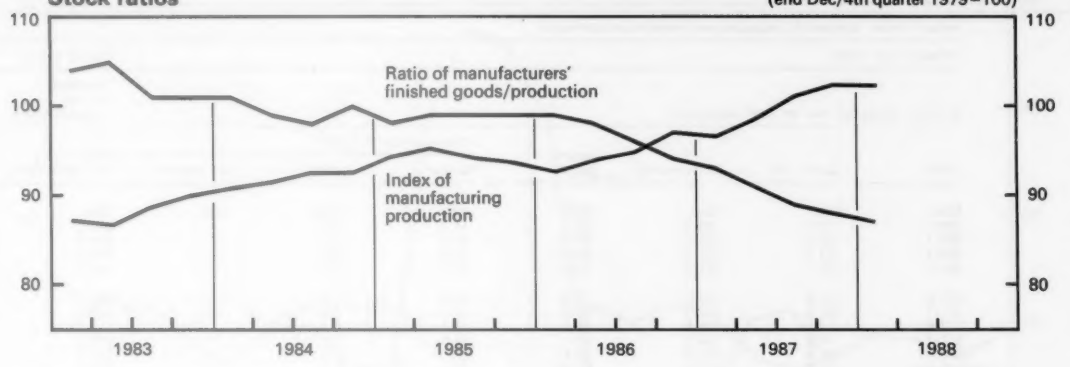
1980 prices: stocks level, end - Dec 1979=100; GDP(E), industrial production and retail sales, 4th quarter 1979=100

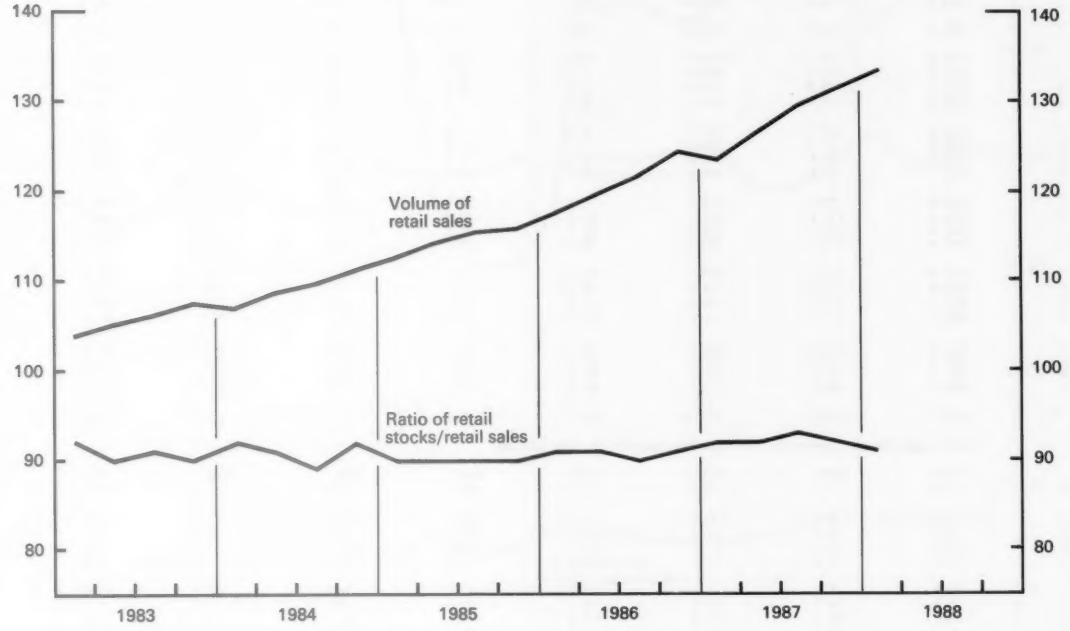
		Total stocks to gross domestic product (expenditure based)	Manufacturers' stocks to manufacturing production (revised definition): Total stocks	Materials and fuel	Work in progress	Finished goods	Retail stocks to retail sales(1)
		FDCA	FDCB	FDCC	FDCD	FDCE	FDCF
1982	4	93	102	93	107	107	94
1983	1	91	99	88	106	104	92
	2	92	100	88	106	105	90
	3	91	96	85	104	101	91
	4	91	96	85	102	101	90
1984	1	90	95	84	102	101	92
	2	91	95	84	102	99	91
	3	90	94	84	101	98	89
	4	89	95	84	101	100	92
1985	1	87	92	82	97	98	90
	2	87	92	82	96	99	90
	3	88	93	83	97	99	90
	4	88	92	83	95	99	90
1986	1	87	92	84	95	99	91
	2	87	92	83	95	98	91
	3	87	90	82	94	96	90
	4	85†	88	79	91	94	91
1987	1	84	88	79	91	93	92
	2	85	86	78	90	91	92
	3	84	85	77	89	89	93
	4	83	83	76	87	88	92
1988	1	83	84†	77†	87†	87†	91†

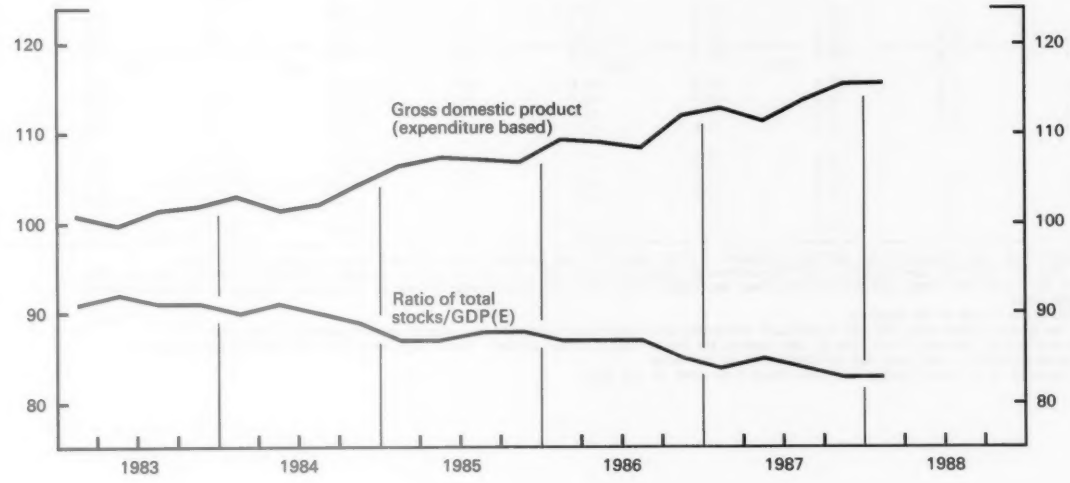
1 Classes 64-65 excluding activity headings 6510 and 6520, retail distribution of motor vehicles and parts, and filling stations.

Stock ratios

1980 prices seasonally adjusted
(end Dec/4th quarter 1979=100)





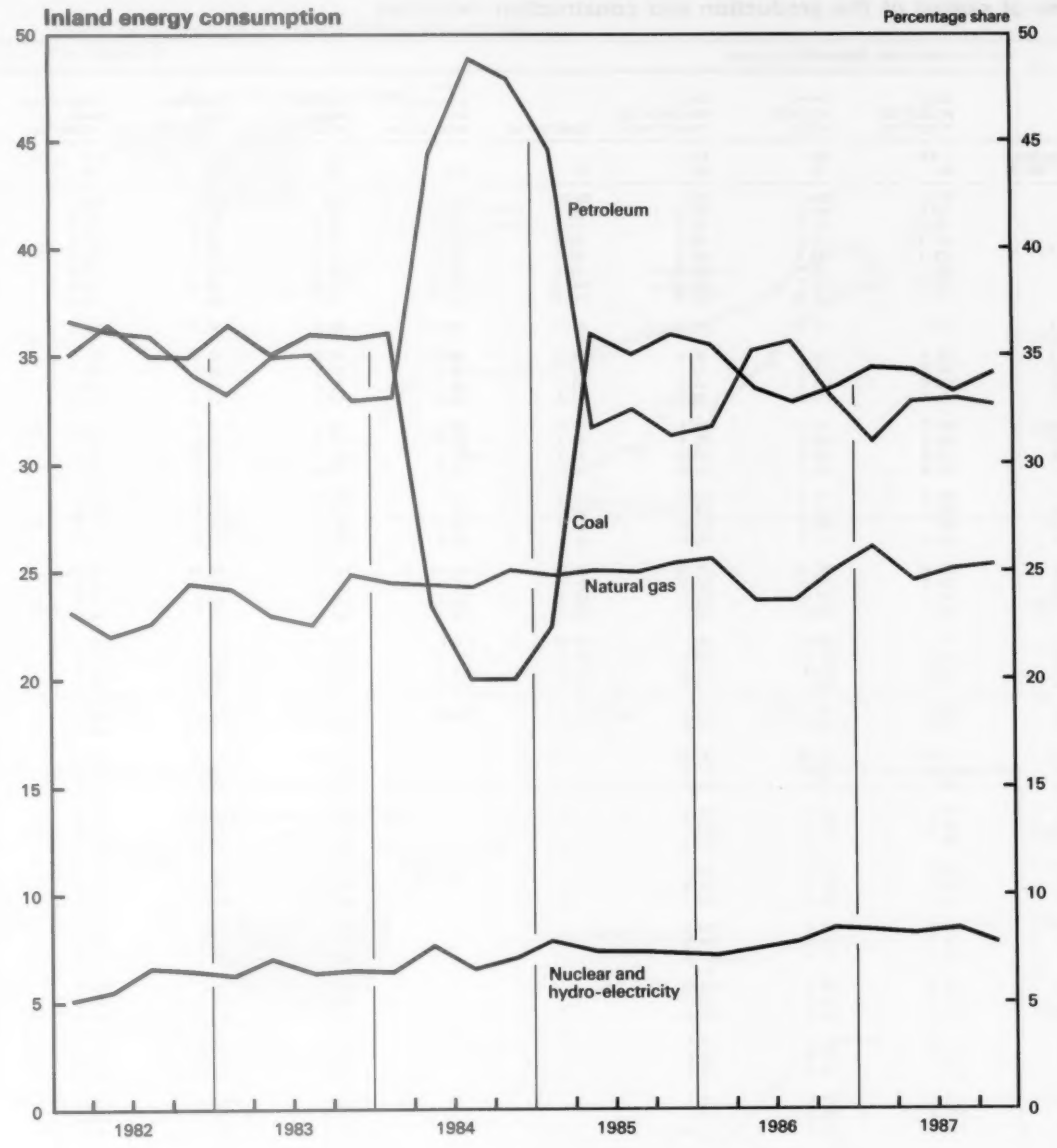


Inland energy consumption

Annual rates, seasonally adjusted and temperature corrected

		Primary fuel input							Public supply
		Million tonnes of coal or coal equivalent							Thousand million kilowatt hours
						Primary electricity(5)			
		Total	Coal(1,2)	Petroleum(3)	Natural gas(4)	Nuclear	Hydro(6)	Net imports	Electricity available-GB(7)
		FDAH	FDAI	FDAJ	FDAK	FDAL	FDAM	FDAN	FDAN
1977		338.2	122.4	136.8	62.7	14.3	2.0	-	240.2
1978		339.1	119.4	139.2	65.0	13.4	2.1	-	246.3
1979		349.3	127.2	137.0	69.1	13.8	2.2	-	255.0
1980		327.2	120.1	121.2	70.5	13.4	2.0	-	245.9
1981		315.3	117.5	110.2	71.6	13.7	2.3	-	239.2
1982		311.7	109.6	110.8	72.9	16.0	2.4	-	236.2
1983		313.6	111.6	105.9	75.6	18.1	2.4	-	242.3
1984		312.1	78.5	134.7	77.3	19.5	2.1	-	246.0
1985		323.4	104.9	113.2	80.9	22.2	2.2	-	255.8
1986		330.0†	112.6†	111.1	80.5†	21.4	2.4	1.7	261.3
1987		333.3	114.4	108.1†	84.2	19.8†	2.2†	4.7	269.9
1982	4	307.3	107.4	105.0	74.9	17.4	2.6	-	236.3
1983	1	311.0	113.1	103.0	75.3	16.8	2.8	-	236.4
	2	310.6	109.0	108.4	71.1	19.4	2.7	-	241.7
	3	322.1	116.3	112.6	72.6	18.9	1.7	-	248.4
	4	309.4	110.9	101.7	76.8	17.8	2.2	-	242.8
1984	1	312.3	112.8	103.1	76.6	17.5	2.4	-	242.3
	2	306.6	71.9	136.5	74.7	21.6	2.0	-	244.3
	3	312.4	62.6	152.8	76.0	19.5	1.4	-	250.3
	4	313.1	62.6	149.9	78.5	20.1	2.0	-	247.2
1985	1	319.6	72.0	143.0	79.4	23.3	2.1	-	263.9
	2	326.4	117.5	103.1	81.5	22.3	2.0	-	258.4
	3	328.0	115.1	106.6	81.7	22.3	2.1	-	260.2
	4	319.1	115.1	100.0	80.9	21.0	2.2	-	254.9
1986	1	324.7†	115.2	103.0	83.3	21.0	2.2	0.2	258.3
	2	333.9	112.9	116.9	79.0†	21.2	2.2	1.6	265.3
	3	331.7	110.7	116.6	78.0	21.8	2.3	1.3	260.4
	4	329.0	111.7	114.0	81.7	21.6†	2.2	4.7	261.0
1987	1	324.8	112.4	102.8	82.4	21.4	2.3	3.7	263.9
	2	335.8	115.0†	108.0	85.1	20.0	2.2	5.4	269.4
	3	336.1	114.8	111.3	84.4	18.9	2.2†	4.7†	272.7
	4	336.9	115.4	110.4	84.9	18.9	2.1	5.2	273.7
1988	1	340.5	116.9	112.3†	84.7	19.4	2.3	5.1	266.8†
		Percentage change, quarter on corresponding quarter of previous year							
		FDAO	FDAP	FDAQ	FDAR	FDAS	FDAT	FDAX	FDAU
1982	4	-1.8	-7.1	-2.2	+1.7	+25.5	+4.6	-	-1.7
1983	1	-1.4	+0.5	-10.0	+3.7	+23.9	+18.5	-	-0.8
	2	+1.6	-2.5	-1.5	+5.8	+36.7	+8.8	-	+2.7
	3	+0.9	+3.1	-1.0	+1.1	+0.5	-19.7	-	+2.0
	4	+1.0	+4.3	-3.1	+2.5	+2.3	-14.0	-	+2.8
1984	1	+0.4	-0.2	-	+1.7	+4.3	-15.8	-	+2.5
	2	-1.3	-34.0	+25.9	+5.0	+10.9	-25.8	-	+1.1
	3	-3.0	-46.1	+35.8	+4.7	+2.8	-15.6	-	+0.8
	4	+1.2	-43.5	+47.5	+2.2	+12.6	-9.6	-	-1.2
1985	1	+2.3	-36.2	+38.7	+3.6	+33.3	+11.9	-	+3.1
	2	+6.3	+63.4	-24.4	+9.1	+3.6	-15.8	-	+5.8
	3	+4.7	+83.8	-30.3	+7.5	+4.2	-7.0	-	+4.0
	4	+1.9	+83.8	-33.3	+2.9	+4.7	+5.8	-	+3.1
1986	1	+1.6	+80.0	-28.0	+4.9	-10.0	+6.8	+	+3.4
	2	+1.8	-5.0	+13.4	-3.4	-5.2	+14.2	+	+2.6
	3	-0.4	-7.0	+9.4	-5.0	-1.9	+14.6	+	+0.1
	4	+2.4	-5.0	+7.8	+1.2	+2.5	+5.8	+	+2.4
1987	1	-	-2.1	-0.2	-1.1	+1.9	+2.7	+	+2.2
	2	-0.6	+1.9	-7.6	+7.7	-5.6	-0.2	+	+1.6
	3	+1.3	+3.7	-4.6	+8.2	-13.6	-5.9	+	+4.7
	4	+2.4	+3.3	+2.4	+3.9	-12.7	-7.4	+32.9	+4.9
1988	1	+4.8	+4.0	+9.2	+2.8	-9.1	+0.4	+37.7	+1.1

1 Consumption by fuel producers plus colliery disposals to final users plus net foreign trade and stock change in other solid fuels.
2 Coal data for 1983 have been adjusted, for the purposes of comparison with 1984, to take account of calendar differences between 1983 and 1984.
3 Inland deliveries for energy use plus refinery fuel and losses minus the difference between deliveries and actual consumption at power stations and gas works.
4 Excluding gas flared or re-injected.
5 Data for primary electricity are not temperature corrected, and hydro electricity and net imports are not seasonally adjusted.
6 Hydro electricity quarterly data from Q1 1985 onwards are the estimated annual outturn. Comparisons with 1984 are based on corresponding estimated outturns in that year,not the data shown in the table.
7 The inclusion of Northern Ireland would add about 2 per cent to the total.


Inland energy consumption
Percentage share
50
45
40
35
30
25
20
15
10
5
0
Petroleum
Coal
Natural gas
Nuclear and
hydro-electricity
1982
1983
1984
1985
1986
1987

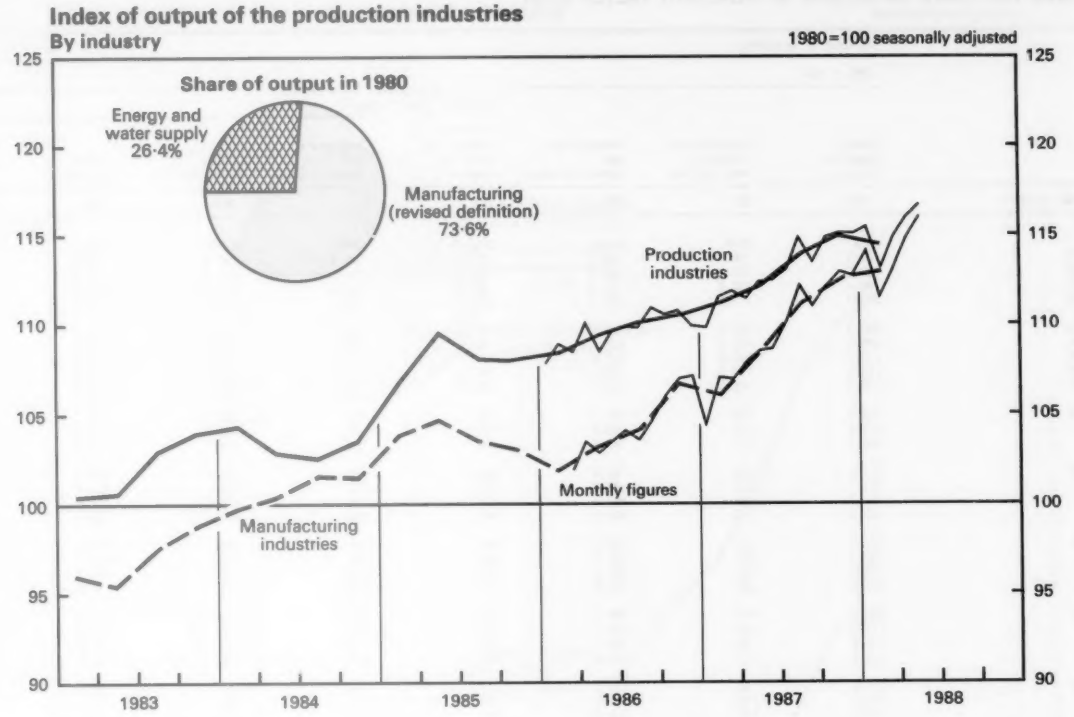
Index of output of the production and construction industries

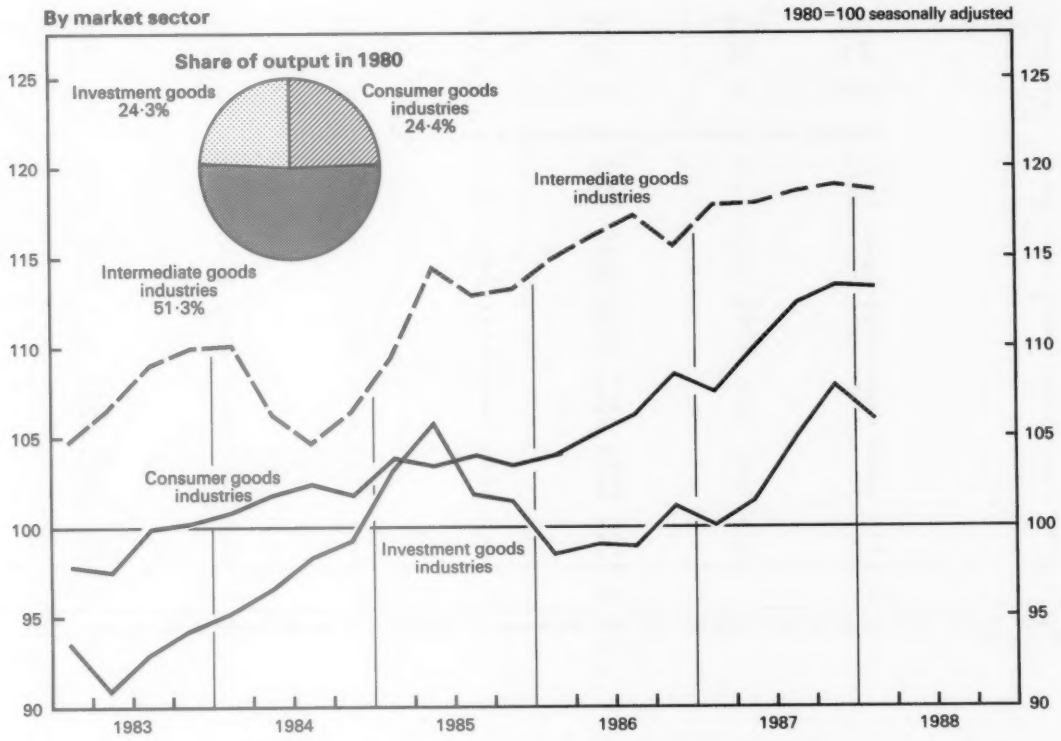
1980 = 100, seasonally adjusted

		Total production industries	Energy and water supply	Total Manufacturing industries(1)	Construction	Total production and construction	Consumer goods industries	Investment goods industries	Intermediate goods industries
1980 weights		1 000	264	736			245	243	512
PPT of GDP(O)		381	95	266	63	424	88	88	185
		DVIM	DVIN	DVIS	DVJO	DVJN	DVJP	DVJV	DVJZ
1981		96.6	103.6	94.0	89.9	95.6	96.4	91.3	99.2
1982		98.4	110.0	94.2	91.6	97.4	95.9	92.4	102.3
1983		101.9	115.9	96.9	95.3	100.9	98.9	92.9	107.6
1984		103.3	110.2	100.9	96.5	102.6	101.7	97.3	106.9
1985		108.1	120.1	103.8	99.8	106.8	103.6	103.1	112.6
1986		109.6†	125.2	104.0†	102.1	108.5†	105.9†	99.5†	116.0
1987		113.1	122.6†	109.6	110.9†	112.7	110.9	103.7	118.4
1982	4	98.2	112.3	93.2	94.3	97.6	95.6	90.6	102.9
1983	1	100.4	112.7	96.0	93.7	99.4	97.8	93.6	104.8
	2	100.6	115.2	95.4	92.1	99.3	97.5	90.9	106.7
	3	102.9	117.7	97.6	97.7	102.1	99.9	93.0	109.1
	4	103.9	117.9	98.8	97.8	103.0	100.3	94.3	110.0
1984	1	104.3	116.6	99.8	97.8	103.3	100.8	95.2	110.2
	2	102.6	109.5	100.4	98.3	102.1	101.8	96.6	106.3
	3	102.6	105.2	101.6	99.6	102.2	102.4	98.3	104.7
	4	103.8	109.4	101.5	98.2	102.8	101.8	99.3	106.4
1985	1	106.7	114.6	103.8	100.3	105.7	103.8	103.2	109.6
	2	109.5	123.2	104.7	99.5	108.1	103.4	105.8	114.4
	3	108.1	120.9	103.5	98.7	106.7	104.0	101.9	113.0
	4	108.0	121.9	103.0	100.8	106.9	103.4	101.6	113.3
1986	1	108.4†	126.6†	101.8†	98.9	107.0†	103.8†	98.6†	115.0†
	2	109.3	126.2	103.2	101.7	108.2	105.0	99.1	115.9
	3	110.3	127.3	104.1	102.8	109.2	106.2	98.9	117.4
	4	110.5	120.9	106.7	106.1	109.7	106.4	101.3	115.8
1987	1	111.1	125.2	106.1	109.9†	110.9	107.4	100.1	118.1
	2	111.8	121.4	108.4	107.1	111.1	110.0	101.6	117.4
	3	114.0	121.8	111.3	111.0	113.6	112.5	105.0	119.0
	4	115.3	122.1	112.8	115.5	115.3	113.7	108.0	119.2
1988	1	115.4	119.1	114.1	121.1	116.3	113.5	108.9	120.1
	2	116.9	119.9	115.9			114.5	111.2	120.5
1986	J	107.9†	123.8†	102.0†	..	..	102.9†	99.2†	114.0†
	F	108.8	128.4	101.7	..	..	104.1	98.5	115.8
	M	108.5	127.5	101.7	..	..	104.5	98.2	115.2
	A	110.2	129.2	103.4	..	..	105.5	98.9	117.7
	M	108.5	124.5	102.7	..	..	104.5	98.6	114.8
	J	109.1	124.8	103.4	..	..	105.1	99.9	115.1
	J	109.9	126.2	104.1	..	..	105.8	99.5	116.7
	A	109.9	127.3	103.6	..	..	106.1	98.1	117.1
	S	111.0	128.4	104.7	..	..	106.8	99.0	118.4
	O	110.5	123.2	106.0	..	..	107.7	99.9	116.9
	N	110.9	121.7	107.0	..	..	109.1	101.9	116.0
	D	110.0	117.9	107.2	..	..	108.4	102.1	114.5
1987	J	109.8	125.2	104.3	..	..	106.6	98.2	116.8
	F	111.7	124.5	107.1	..	..	108.2	100.5	118.6
	M	111.9	125.9	106.9	..	..	107.5	101.7	118.9
	A	111.6	122.0	107.9	..	..	109.6	100.9	117.5
	M	112.5	123.2	108.6	..	..	110.3	101.6	118.5
	J	111.4	118.9	108.7	..	..	110.0	102.3	116.3
	J	113.5	122.5	110.3	..	..	112.1	102.3	119.3
	A	115.0	122.4	112.3	..	..	113.3	106.7	119.6
	S	113.6	120.4	111.2	..	..	112.0	105.9	118.0
	O	115.1	122.3	112.5	..	..	113.8	106.3	119.7
	N	115.3	121.6	113.1	..	..	113.9	107.9	119.4
	D	115.4	122.4	112.9	..	..	113.5	109.7	118.6
1988	J	116.5	119.2	115.5	..	..	114.4	106.4	122.0
	F	114.0	118.2	112.5	..	..	112.3	106.1	118.3
	M	115.8	119.9	114.3	..	..	113.7	108.3	120.0
	A	116.5	119.7	115.4	..	..	112.6	111.5	120.4
	M	117.6	119.5	116.9	..	..	115.8	110.3	121.6
	J	116.6	120.4	115.3	..	..	115.2	111.7	119.4

1 The figures for manufacturing industries contain an adjustment for stock changes and for measurement bias - see Annual Supplement 1987 edition.

Index of output of the production industries

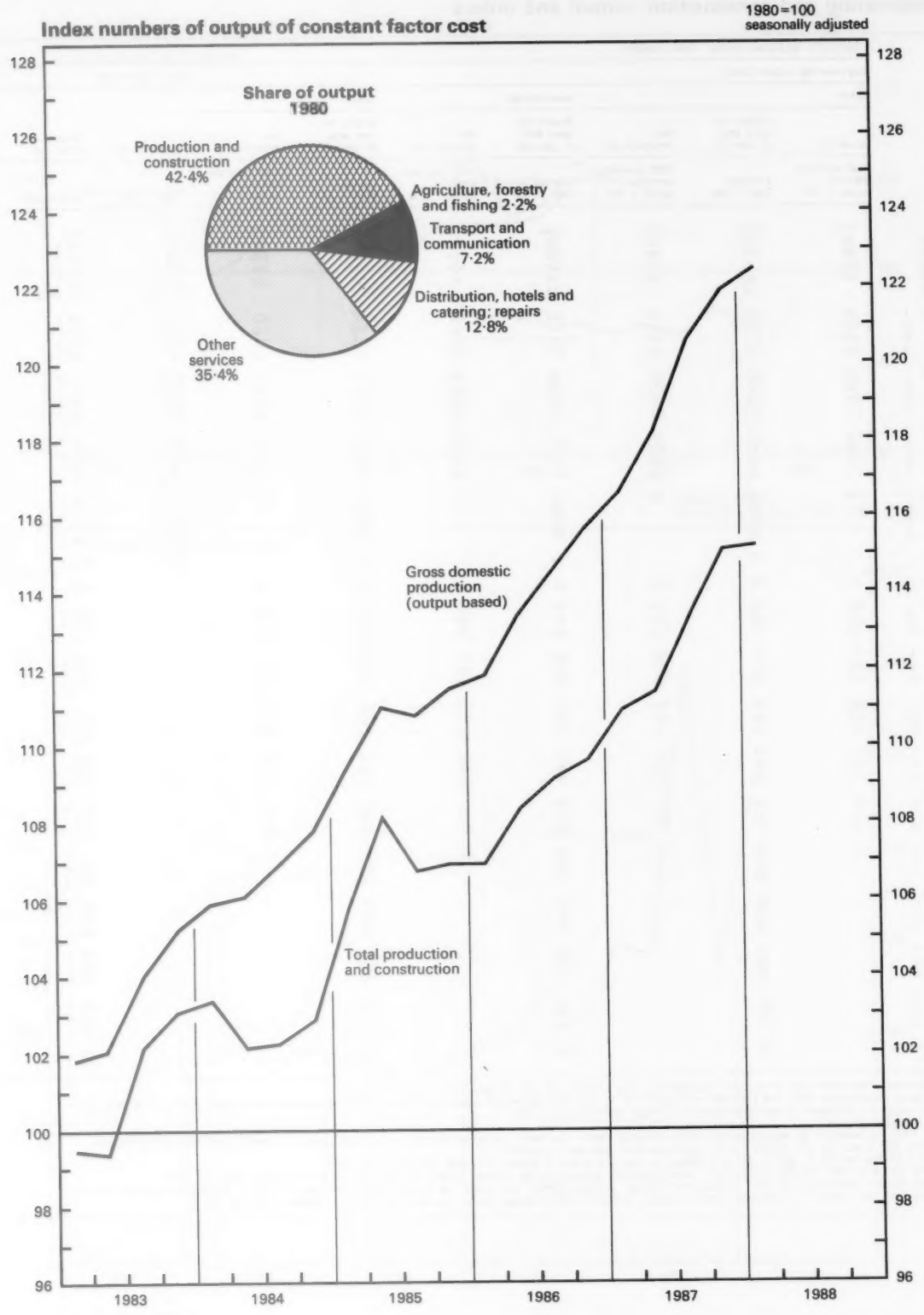




Index numbers of output at constant factor cost

		Seasonally adjusted						
		1980 = 100						
					Service industries			
		Gross domestic product	Agriculture, forestry and fishing	Production and construction(1)	Distribution, hotels and catering; repairs	Transport and communication	Other services	Total services
1980 weights		1 000	22	424	128	72	354	554
		DSAE	CKAP	DVJN	CKAQ	CKAR	CKAS	CKCE
1979		102.9	90.1	106.9	106.5	101.3	97.9	100.4
1980		100.0	100.0	100.0	100.0	100.0	100.0	100.0
1981		98.4	102.6	95.6	98.4	100.2	101.1	100.3
1982		100.1	111.2	97.4	100.3	99.2	102.8	101.7
1983		103.3	105.2	100.9	104.6	102.1	105.7	105.0
1984		106.7	122.3	102.6	108.5	106.5	109.6	109.2
1985		110.7	116.5	106.8	114.8	112.1	113.2	113.4
1986		113.9	118.0	108.5	120.4	117.0	117.1	117.9
1987		119.3	115.9	112.7	129.3	125.1	122.7	124.5
1982	2	99.9	112	97.7	99	100	102	101.2
	3	100.5	113	98.2	101	98	103	101.8
	4	100.8	111	97.6	102	100	104	102.7
1983	1	101.8	105	99.4	103	101	104	103.6
	2	102.1	102	99.3	103	102	105	104.2
	3	104.0	104	102.1	105	103	108	105.5
	4	105.2	110	103.0	107	104	107	106.6
1984	1	105.9	118	103.3	108	104	108	107.5
	2	106.1	124	102.1	109	105	109	108.4
	3	106.9	125	102.2	110	107	110	109.7
	4	107.8	122	102.8	112	109	111	111.0
1985	1	109.5	118	105.7	113	111	112	112.1
	2	111.0	116	108.1	114	112	113	113.0
	3	110.8	116	106.7	115	112	113	113.7
	4	111.5	117	106.9	116	113	115	114.8
1986	1	111.8	118	107.0	117	114	115	115.3
	2	113.4	118	108.2	119	117	116	117.1
	3	114.6	119	109.2	122	117	118	118.7
	4	115.7	117	109.7	124	120	119	120.4
1987	1	116.6	116	110.9	125	119	120	121.0
	2	118.2	116	111.1	128	124	122	123.6
	3	120.6	116	113.6	131	128	124	126.3
	4	121.9	116	115.3	133	129	125	127.3
1988	1	122.7†	116	116.3	137	129	125	128.0†
	2							131.0
		Percentage change, quarter on corresponding quarter of previous year						
1982	1	+1.4	+8	+1.4	+1	-	+2	+1.2
	2	+2.0	+11	+3.0	+1	+1	+1	+1.1
	3	+1.6	+10	+2.0	+2	-3	+2	+1.1
	4	+1.8	+5	+1.1	+5†	-2	+2	+2.1†
1983	1	+2.7	-4	+3.4	+4	+2	+2	+2.4
	2	+2.1	-9	+1.6	+4	+2	+3	+2.9
	3	+3.5	-8	+4.0	+5	+4	+3	+3.7
	4	+4.3	-1	+5.5	+5	+4	+3	+3.8
1984	1	+4.0	+12	+3.9	+4	+3	+4	+3.8
	2	+3.9	+22	+2.8	+5	+3	+4	+4.1
	3	+2.7†	+21	+0.1	+4	+5	+4	+4.0
	4	+2.5	+10	-0.2	+4	+6	+4	+4.1
1985	1	+3.4	-	+2.3	+5	+7	+4	+4.3
	2	+4.6	-7	+5.8	+5	+7	+4†	+4.2
	3	+3.6	-8	+4.4	+5	+4	+3	+3.6
	4	+3.4	-4	+4.0	+4	+3	+3	+3.4
1986	1	+2.1	-	+1.2	+3	+3	+3	+2.8
	2	+2.1	+2	+0.2	+4	+3†	+3	+3.6
	3	+3.5	+3	+2.3	+6	+4	+4	+4.4
	4	+3.8	+1	+2.6	+6	+7	+4	+4.9
1987	1	+4.3	-2	+3.6	+7	+4	+4	+4.9
	2	+4.3	-2	+2.7	+7	+7	+5	+5.6
	3	+5.2	-2	+4.0	+7	+9	+5	+6.4
	4	+5.3	-2	+5.1	+7	+7	+4	+5.8
1988	1	+5.1	-	+4.9	+10	+9	+4	+6.1

1 The latest revisions to this coluen may not yet have been fully taken into account in the calculation of the series shown for overall gross domestic product.


Index numbers of output of constant factor cost
1980=100
seasonally adjusted
Share of output
1980
Production and construction 42·4%
Agriculture, forestry and fishing 2·2%
Transport and communication 7·2%
Distribution, hotels and catering; repairs 12·8%
Other services 35·4%
Gross domestic production (output based)
Total production and construction
128
126
124
122
120
118
116
114
112
110
108
106
104
102
100
98
96
1983
1984
1985
1986
1987
1988

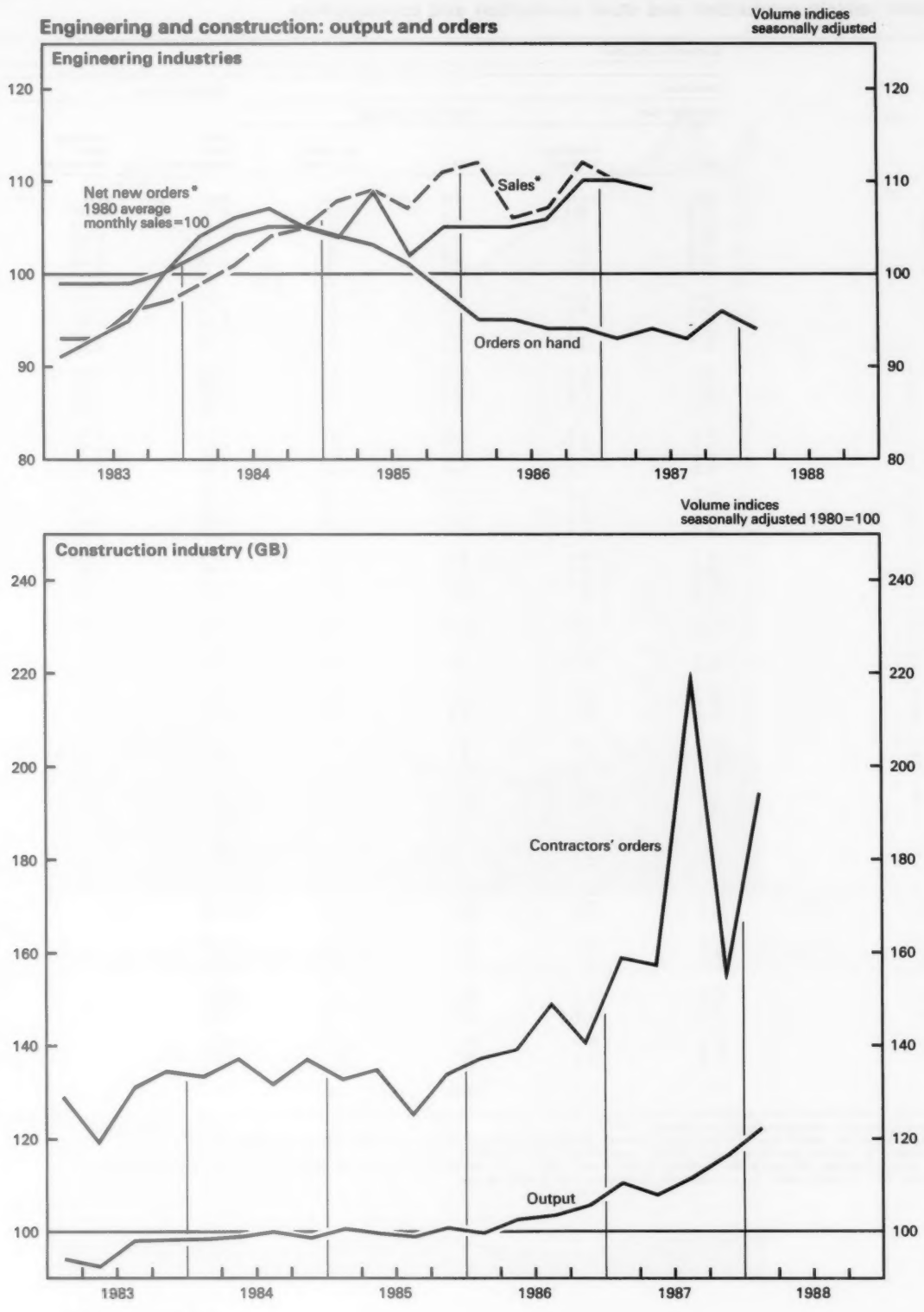
Engineering and construction: output and orders

Seasonally adjusted volume index numbers

		Engineering industries(1)							Construction(GB)	
		Total			Home market		Export			
		Sales(2)	Orders on hand end of period	New orders(2,3)	Orders on hand end of period	New orders(2,3)	Orders on hand end of period	New orders(2,3)	Output(4,5)	Orders received
		1980 average monthly sales = 100	Average 1980 = 100	1980 average monthly sales = 100	Average 1980 = 100	1980 average monthly sales = 100	Average 1980 = 100	1980 average monthly sales = 100	1980 = 100	1980 = 100
		FEAJ	DKCJ	FEAL	FEAV	FEAN	FEAX	FEAP	FEAQ	FEAZ
1983		95	100	95	99	96	102	94	95.7	128.8
1984		102	107	106	100	103	118	110	99.0	135.2
1985		109	100	105	92	104	113	108	100.1	131.9
1986		110	96	106	89	110	108	100	102.8	141.7
1987			99		93		109		111.6	172.9 (8)
1984	1	99	103	104	101	105	107	102	98.4	133.8
	2	101	105	106	101	102	113	113	99.0	137.6
	3	104	107	107	101	102	118	115	100.0	132.0
	4	105	107	105	100	103	118	110	98.4	137.3
1985	1	108	105	104	98	103	117	107	100.6	133.0
	2	109	105	106	96	110	121	126	99.7	135.0
	3	107	103	102	93	102	119	105	99.0	125.6
	4	111	100	105	92	110	113	96	101.1	134.0
1986	1	112	97	105	90	110	109	95	99.5	137.8
	2	106	97	105	91	112	106	91	102.4	139.2
	3	107	96	106	91	112	105	97	103.4	149.5
	4	112	96	109	89	110	108	118	105.8	140.4
1987	1	110	96	103	90	112	106	103	110.5	159.2
	2	..	96	..	89	..	108	..	107.9	157.6
	3	..	95	..	88	..	108	..	111.6	220.3 (7)
	4	..	99	..	93	..	109	..	116.2	154.5
1988	1	..	101	..	94	..	114	..	122.1	194.9
1985	D	112	100	109	92	118	113	92	..	116.0
1986	J	107	98	99	91	104	111	88	..	145.8
	F	109	98	105	91	108	111	97	..	133.6
	M	120	97	113	90	120	109	100	..	134.1
	A	101	97	100	90	107	108	85	..	145.3
	M	109	97	107	91	115	107	91	..	130.6
	J	108	97	108	91	114	106	96	..	141.6
	J	108	95	103	90	110	105	90	..	174.4
	A	106	96	106	90	111	105	96	..	133.6
	S	110	96	110	91	113	105	103	..	140.6
	O	111	95	107	91	109	103	102	..	141.7
	N	114	95	110	89	106	104	117	..	142.4
	D	111	96	110	89	108	108	114	..	137.1
1987	J	107	98	110	89	104	109	122	..	177.0
	F	110	97	103	91	108	108	92	..	146.1
	M	112	96	96	90	100	106	88	..	154.6
	A	112	95	106	89	105	106	107	..	148.2
	M	..	96	..	89	..	106	..	..	178.2
	J	..	96	..	89	..	108	..	..	146.3
	J	..	98	..	89	..	108	..	..	305.0 (6)
	A	..	98	..	88	..	108	..	..	192.5
	S	..	95	..	88	..	108	..	..	163.2
	O	..	96	..	89	..	109	..	..	156.4
	N	..	98	..	92	..	109	..	..	150.4
	D	..	99	..	93	..	109	..	..	156.6
1988	J	..	101	..	94	..	113	..	..	200.3
	F	..	101	..	94	..	113	..	..	198.4
	M	..	101	..	94	..	114	..	..	186.0
	A	..	100	..	93	..	112	..	..	170.5
	M	..		..		..		..	..	174.2

1 Mechanical, instrument and electrical engineering (SIC classes 32, 33, 34 and 37).
2 Following discussions with the Engineering Industries it has been agreed to cease publication of sales and net new orders series from May 1987. It is hoped to introduce a new presentation of these series during 1988.
3 Net of cancellations.
4 This index is based on an output series which includes repair and maintenance estimates, unrecorded output by small firms and self-employed workers and output by the direct labour departments of the public sector.
5 Details of the method of deflation to constant prices are given in Economic Trends, No.297, July 1978.
6 Orders for July 1987 include the Channel Tunnel project. Excluding the Channel Tunnel project the level of orders would be 188.8.
7 Orders for the third quarter 1987 include the Channel Tunnel project. Excluding the Channel Tunnel project the level of orders would be 181.5.
8 Orders for 1987 include the Channel Tunnel project. Excluding the Channel Tunnel project the level of orders would be 163.1.

Engineering and construction: output and orders



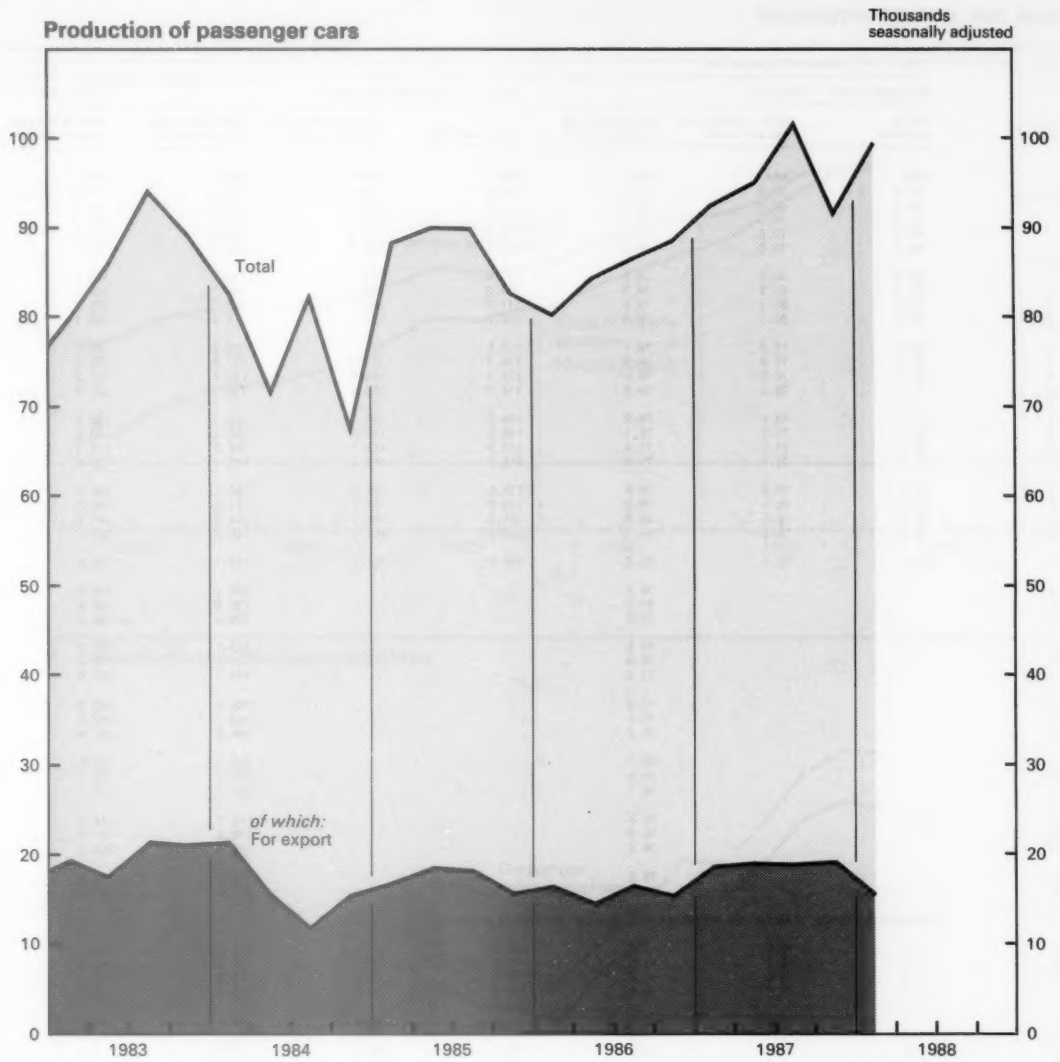
*See footnote [2] on page 30

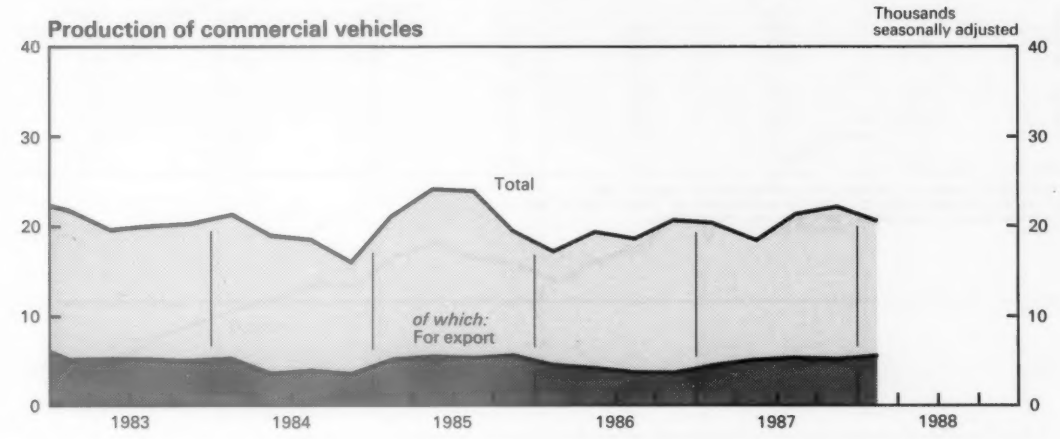
Motor vehicle production and steel production and consumption

Seasonally adjusted

		Thousands(1)				Thousand tonnes	
		Passenger cars*		Commercial vehicles*			
		Total	Production for export	Total	of which: For export	Crude steel production(2,3,4)	Finished steel consumption
		FFAO	FFAP	FFAQ	FFAR	FFAM	FFAN
1977		109.7	46.9	33.2	16.4	20 411	15 300
1978		101.9	41.2	32.0	14.1	20 311	15 710
1979		89.2	32.7	34.0	13.5	21 464	15 480
1980		77.0	29.1	32.4	13.0	11 277	12 770
1981		79.5	25.4	19.1	9.5	15 573	12 440
1982		74.0	18.9	22.4	7.7	13 704	12 240
1983		87.0	19.8	20.4	5.2	14 986	11 510
1984		75.7	16.0	18.7	4.1	15 121	11 340
1985		87.3	17.3	22.2	5.5	15 722	11 560
1986		84.9	15.6	19.1	4.1	14 726	11 820†
1987		95.2	18.9	20.6	5.1	17 414	12 330
1984	1	82.4	21.4	21.2	5.3	3 963	2 850
	2	71.3	15.5	19.0	3.7	3 604	2 720
	3	82.1	11.8	18.6	3.9	3 743	2 910
	4	67.2	15.4	16.1	3.7	3 766	2 860
1985	1	89.2	15.6	21.5	5.1	3 714	2 820
	2	90.8	18.7	23.8	5.6	4 117	2 820
	3	86.8	17.7	23.5	5.4	3 920	2 910
	4	82.5	17.2	19.8	5.8	3 965	3 010
1986	1	80.2	16.2	17.2	4.8	3 787	2 950
	2	84.3	14.6	19.4	4.2	3 256	3 010†
	3	86.6	16.3	18.8	3.8	3 436	2 960
	4	88.6	15.4	20.8	3.8	4 244	2 900
1987	1	92.7	18.5	20.3	4.7†	3 989	2 870
	2	95.0	19.0	18.5	5.1	4 392	3 010
	3	101.6	18.9	21.4	5.4	4 673	3 270
	4	91.6	19.1	22.1	5.1	4 672†	3 180
1988	1	99.3	16.0†	20.7†	5.6	4 751	3 560
	2	104.5†	16.0	26.4	7.0	4 722	
1986	M	85.8	13.7	20.3	4.5	980.0	..
	J	85.2	15.7	19.9	3.9	973.0	..
	J	83.7	14.8	19.1	3.9	1 220.0	..
	A	81.9	17.4	18.6	3.5	955.0	..
	S	94.1	16.8	18.6	3.9	1 261.0	..
	O	81.1	12.0	19.4	3.7	1 593.0	..
	N	87.5	16.3	18.4	3.7	1 265.0	..
	D	97.3	17.8	24.6	4.0	1 387.0	..
1987	J	85.7	16.4	19.8	4.1	1 493.0	..
	F	90.1	19.0	19.7	4.1	1 270.0	..
	M	102.3	20.2	21.3	5.7	1 226.0	..
	A	87.8	17.9	17.0	4.8	1 724.0	..
	M	95.8	19.0	18.9	5.4	1 281.0	..
	J	101.5	20.0	19.6	5.0	1 388.0	..
	J	101.2	19.4	19.1	5.0	1 674.0	..
	A	101.3	17.6	21.8	5.2	1 318.0	..
	S	102.2	19.6	23.3	6.0	1 681.0.	..
	O	95.0	20.0	21.5	4.8	1 390.0†	..
	N	86.4	18.2	21.8	5.0	1 425.0	..
	D	93.3	19.1	23.1	5.6	1 856.0	..
1988	J	106.6	15.9	22.6	6.0	1 622.0	..
	F	84.9	15.7	16.2	3.7	1 446.0	..
	M	106.3†	14.6†	23.3†	7.1†	1 682.0	..
	A	95.3	15.9	23.1	6.0	1 432.0	..
	M	102.8	13.6	26.1	6.7	1 513.0	..
	J	112.5	17.7	29.9	8.3	1 777.0	..
	J	104.4	17.4	28.5	7.8		..

1 Monthly averages or standardised calendar months.
2 The totals are for 'usable steel' in accordance with the system used by the EC and the International Iron and Steel Institute.
3 The seasonally adjusted quarterly figures are not constrained to sum to the annual totals.
4 May, July and October 1985 are 5 week periods, as are January, April, July and October 1986, as are January, April, July and September and December 1987. In 1988, March, June, August and November are all 5 week periods.


Production of passenger cars
Thousands
seasonally adjusted
100
90
80
70
60
50
40
30
20
10
0
Total
of which:
For export
1983
1984
1985
1986
1987
1988

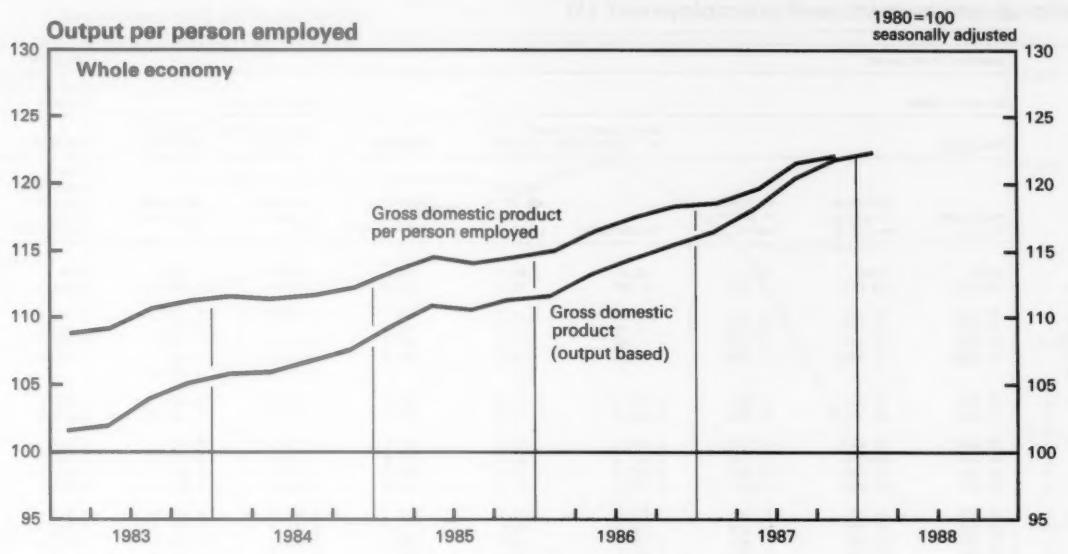

Production of commercial vehicles
Thousands
seasonally adjusted
40
30
20
10
0
Total
of which:
For export
1983
1984
1985
1986
1987
1988

Output per person employed

1980 = 100, seasonally adjusted

		Employed Labour Force(3)			Output per person employed(1)			Output per hour in manufacturing industries(2)
		Whole economy	Total production industries(2)	Manufacturing industries(2)	Whole economy	Total production industries(2)	Manufacturing industries(2)	
		DMBC	DMBK	DMBD	DMBE	CAIW	DMBF	DMBH
1983		93.9	81.6	81.0	110.0	124.7	119.8	118.9
1984		95.5	80.3	79.8	111.7	128.7	126.5	124.4
1985		96.9	79.6	79.5	114.2	135.7	130.6	128.1
1986		97.5	77.5	77.9	116.8	141.4	133.6	131.3
1987		99.1	76.0	76.8	120.3	148.6	142.7	139.5
1984	1	94.9	80.5	79.8	111.6	129.6	125.1	123.3
	2	95.3	80.3	79.7	111.3	128.0	126.1	124.1
	3	95.7	80.1	79.9	111.7	128.1	127.3	125.3
	4	96.1	80.1	79.8	112.2	129.3	127.4	125.1
1985	1	96.5	79.9	79.7	113.5	133.5	130.4	128.0
	2	96.8	79.8	79.6	114.7	137.2	131.6	129.2
	3	97.1	79.6	79.5	114.1	135.8	130.4	127.8
	4	97.2	79.2	79.2	114.7	136.4	130.1	127.4
1986	1	97.2	78.5	78.8	115.0	138.0	129.3	126.8
	2	97.3	77.7	78.1	116.5	140.8	132.2	130.0
	3	97.5	77.0	77.4	117.6	143.1	134.5	132.3
	4	97.9	76.7	77.2	118.3	143.9	138.4	136.0
1987	1	98.4	76.2	76.9	118.5	145.7	138.1	135.5
	2	98.9	76.1	76.9	119.6	147.3	141.0	138.0
	3	99.4	76.0	76.8	121.3	149.7	144.8	141.5
	4	99.9	75.8	76.7	122.0	151.7	146.8	143.0
1988	1	100.4	75.7	76.8	122.0	151.1	147.1	143.0
1987	J	..	..	76.9	..	..	135.7	133.5
	F	..	..	76.9	..	..	139.2	136.8
	M	..	..	76.8	..	..	139.3	136.4
	A	..	..	76.8	..	..	140.7	137.7
	M	..	..	76.9	..	..	141.3	138.4
	J	..	..	77.0	..	..	141.1	137.9
	J	..	..	76.9	..	..	143.4	140.3
	A	..	..	76.9	..	..	146.1	142.8
	S	..	..	76.7	..	..	144.9	141.4
	O	..	..	76.7	..	..	146.3	142.5
	N	..	..	76.8	..	..	147.2	143.4
	D	..	..	76.7	..	..	147.0	143.1
1988	J	..	..	76.8	..	..	148.7	144.3
	F	..	..	76.9	..	..	145.2	141.3
	M	..	..	76.8	..	..	147.4	143.5
	A	..	..	76.6	..	..	150.0	146.2
	M	..	..	76.7	..	..	151.6	147.9
		Percentage change, quarter on corresponding quarter of previous year						
1984	1	+1.5	-3.0	-2.8	+2.5	+7.1	+7.0	+5.7
	2	+1.8	-2.1	-1.8	+2.0	+4.3	+7.3	+6.0
	3	+1.8	-1.5	-0.8	+0.9	+1.2	+5.0	+4.3
	4	+1.7	-1.0	-0.5	+0.8	+0.7	+3.2	+2.6
1985	1	+1.7	-0.7	-0.2	+1.7	+3.0	+4.2	+3.8
	2	+1.6	-0.6	-0.2	+3.1	+7.2	+4.4	+4.1
	3	+1.5	-0.6	-0.5	+2.1	+6.0	+2.4	+2.0
	4	+1.1	-1.1	-0.7	+2.2	+5.5	+2.1	+1.9
1986	1	+0.7	-1.8	-1.1	+1.3	+3.4	-0.9	-0.9
	2	+0.5	-2.6	-1.8	+1.6	+2.6	+0.4	+0.6
	3	+0.4	-3.3	-2.6	+3.1	+5.4	+3.2	+3.5
	4	+0.7	-3.2	-2.6	+3.1	+5.5	+6.4	+6.7
1987	1	+1.2	-2.9	-2.5	+3.0	+5.6	+6.8	+6.9
	2	+1.6	-2.1	-1.5	+2.7	+4.6	+6.7	+6.1
	3	+1.9	-1.3	-0.8	+3.1	+4.6	+7.6	+7.0
	4	+2.0	-1.2	-0.6	+3.1	+5.4	+8.1	+5.1
1988	1	+2.0	-0.7	-	+3.0	+3.7	+6.5	+5.6

1 The ratios do not take into account part-time working or hours of work.
2 Industries are grouped according to the Standard Industrial Classification 1980.
3 Comprises employees in employment, self-employed and HM Forces.

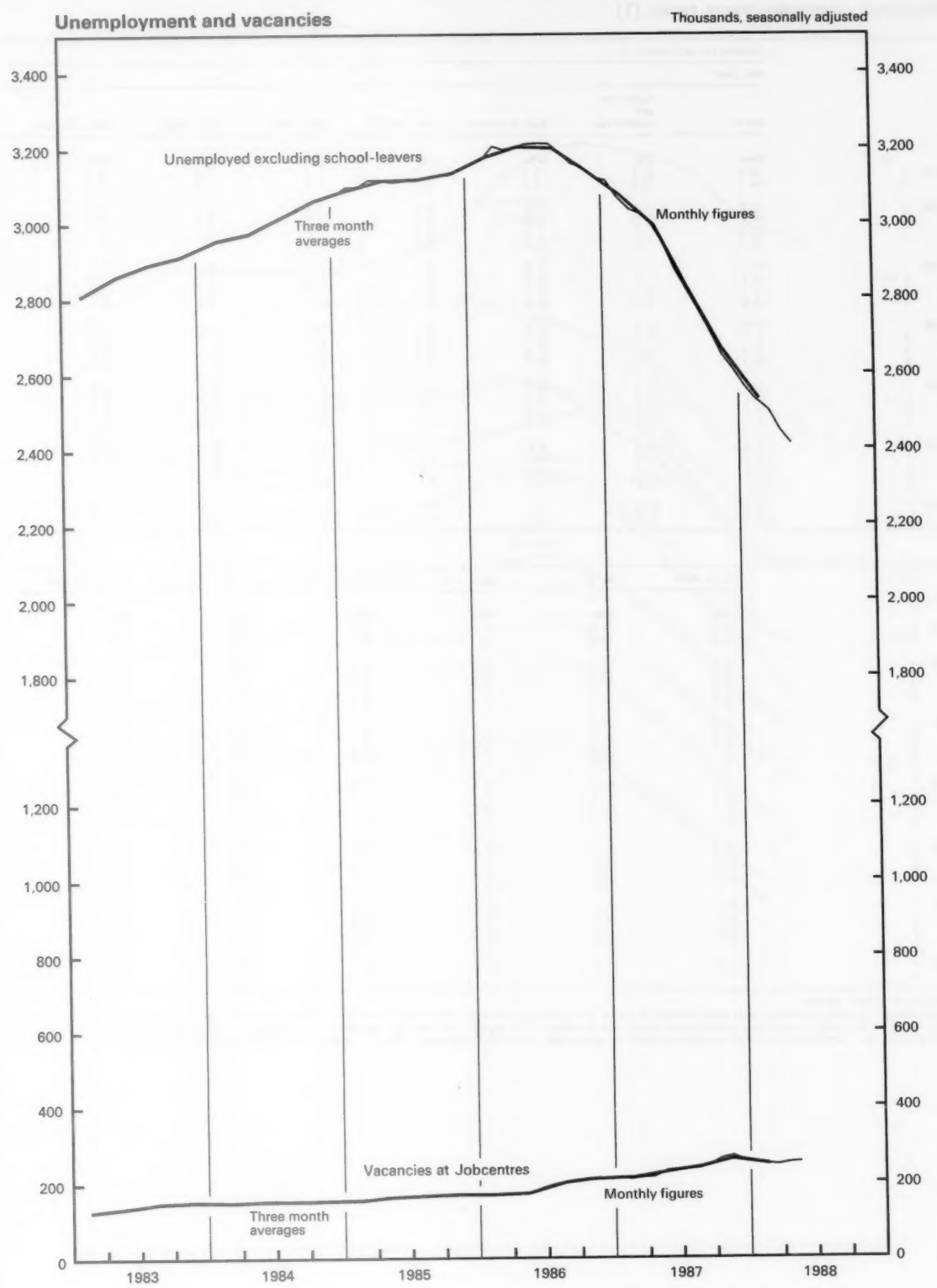

Output per person employed
1980=100
seasonally adjusted
Whole economy
Gross domestic product per person employed
Gross domestic product (output based)
130
125
120
115
110
105
100
95
1983
1984
1985
1986
1987
1988

Manufacturing (Revised definition)
Output per person employed
Output per person hour
Monthly figures
Output
155
150
145
140
135
130
125
120
115
110
105
100
95
90
1983
1984
1985
1986
1987
1988

National employment and unemployment (1)

		Seasonally adjusted								Unadjusted
		United Kingdom					Great Britain			United Kingdom
		Thousands			Unemployed claimants excluding school leavers		Thousands	Manufacturing industry	Production industry	Thousands
		Workforce (2,3,4)	Workforce in employment(2,3)	Employees in employment(2,3)	Thousands(4)	Percentage of workforce (4,5)	Vacancies at job centres (6)	Employees in employment	Employees in employment	Total unemployed including school-leavers(4)
		DYDD	DYDC	BCAJ	BCJD	BCJE	DPCB	BCHK	DYCP	BCJA
1983		26 632	23 611	21 052	2 867	10.8	137.3	5 430.0	6 069.0	3 104.7
1984		27 299	24 216	21 227	2 999	11.0	150.2	5 308.0†	5 916.0†	3 159.8
1985		27 820	24 607	21 495	3 113	11.2	162.1	5 272.0	5 852.0	3 271.2
1986		28 084	24 746	21 572	3 180	11.3	188.3	5 146.0	5 676.0	3 289.1
1987		28 288†	25 290†	21 806†	2 880	10.2	235.0	5 056.0	5 544.0	2 953.4
1988								5 007.0	5 459.0	
1985	3	27 928	24 703	21 533	3 117.3	11.2	163.3	5 267.0†	5 835.0	3 273.9
	4	27 966	24 717	21 558	3 132.4	11.3	167.3	5 240.0	5 798.0†	3 269.6
1986	1	28 009†	24 697†	21 561†	3 174.5	11.3	186.5	5 204.0	5 745.0	3 356.1
	2	28 064	24 746	21 572	3 201.3	11.4	175.6	5 146.0	5 676.0	3 275.1
	3	28 165	24 883	21 590	3 200.8	11.4	200.2	5 107.0	5 626.0	3 297.5
	4	28 196	24 982	21 641	3 145.0	11.2	210.9	5 084.0	5 593.0	3 227.7
1987	1	28 206	25 079	21 702	3 072.0	10.9	211.1	5 063.0	5 548.0	3 222.1
	2	28 288	25 296	21 806	2 964.8	10.5	227.3	5 056.0	5 544.0	2 999.6
	3	28 290	25 454	21 860	2 823.6	10.0	239.6	5 034.0	5 518.0	2 880.8
	4	28 264	25 584	21 978	2 659.4	9.4	262.1	5 028.0	5 505.0	2 710.9
1988	1	28 269	25 702	22 089	2 533.8	9.0	247.6	5 029.0	5 491.0	2 859.9
	2				2 413.2	8.6	254.8	5 007.0	5 459.0	
1986	M			..	3 200.1	11.4	172.1	5 165.0	5 699.0	3 270.9
	J			..	3 208.8	11.5	184.4	5 146.0	5 676.0	3 229.4
	J			..	3 210.3	11.5	193.2	5 131.0	5 656.0	3 279.6
	A			..	3 206.3	11.5	201.1	5 116.0	5 637.0	3 280.1
	S			..	3 185.7	11.4	206.4	5 107.0	5 626.0	3 332.9
	O			..	3 183.5	11.3	209.5	5 095.0	5 614.0	3 237.2
	N			..	3 150.7	11.3	212.5	5 092.0	5 602.0	3 216.8
	D			..	3 120.7	11.1	210.6	5 084.0	5 593.0†	3 229.2
1987	J			..	3 112.2	11.0	212.0	5 065.0	5 566.0	3 297.2
	F			..	3 066.5	10.9	207.0	5 062.0	5 561.0	3 225.8
	M			..	3 037.3	10.8	214.2	5 053.0	5 548.0	3 143.4
	A			..	3 021.4	10.7	217.7	5 046.0	5 533.0	3 107.1
	M			..	2 950.9	10.5	230.5	5 052.0	5 538.0	2 986.5
	J			..	2 922.2	10.4	233.7	5 056.0	5 544.0	2 905.3
	J			..	2 873.1	10.2	235.2	5 048.0	5 532.0	2 906.5
	A			..	2 825.5	10.0	236.9	5 043.0	5 526.0	2 865.8
	S			..	2 772.2	9.8	246.6	5 034.0	5 518.0	2 870.2
	O			..	2 713.6	9.6	261.4	5 032.0	5 511.0	2 751.4
	N			..	2 650.8	9.4	268.2	5 033.0	5 510.0	2 685.6
	D			..	2 613.9	9.3	256.6	5 028.0	5 505.0	2 695.8
1988	J			..	2 564.7	9.1	249.5	5 034.0	5 506.0	2 722.2
	F			..	2 532.6	9.0	247.9	5 035.0	5 502.0	2 665.5
	M			..	2 504.0	8.9	245.5	5 029.0	5 491.0	2 592.1
	A			..	2 453.1	8.7	253.7	5 016.0†	5 465.0	2 536.0
	M			..	2 414.2	8.6	255.5	5 015.0	5 466.0	2 426.9
	J			..	2 372.4	8.4	255.2	5 007.0	5 459.0	2 340.8
	J			..	2 313.9	8.2	249.4			2 325.7

1 Unemployment figures do not include students registered for temporary employment during a current vacation.
2 The workforce consists of the workforce in employment and the unemployed (claimants); the workforce in employment comprises employees in employment, the self-employed, HM Forces and participants in work related government training programmes. For an explanation of the changes to the presentation of employment statistics see the August edition of Employment Gazette. Estimates of employees in employment for December 1984 and subsequent months include an allowance based on the Labour Force Survey to compensate for persistent undercounting in the regular sample enquiries (Employment Gazette January 1987 page 31). For all dates, individuals with two jobs as employees of different employers are counted twice.
3 Annual estimates relate to mid-year. Figures for the four quarters relate to March, June, September and December.
4 Unadjusted figures have been affected by changes in the coverage of the unemployment statistics (for full details see Employment Gazette October 1986, page 422). Seasonally adjusted figures have been revised to adjust for these discontinuities and are all consistent with the new coverage.
5 The denominators used to calculate unemployment rates are the sum of the appropriate mid-year estimates of employees in employment and the unemployed, self-employed, HM Forces and participants in work related government training programmes. Recent figures are based on mid-1987 estimates.
6 Vacancies notified to job centres and remaining unfilled, excluding community programme vacancies.


Unemployment and vacancies
Thousands, seasonally adjusted
3,400
3,200
3,000
2,800
2,600
2,400
2,200
2,000
1,800
1,200
1,000
800
600
400
200
0
Unemployed excluding school-leavers
Three month averages
Monthly figures
Vacancies at Jobcentres
Three month averages
Monthly figures
1983
1984
1985
1986
1987
1988

Regional unemployment rates (1)

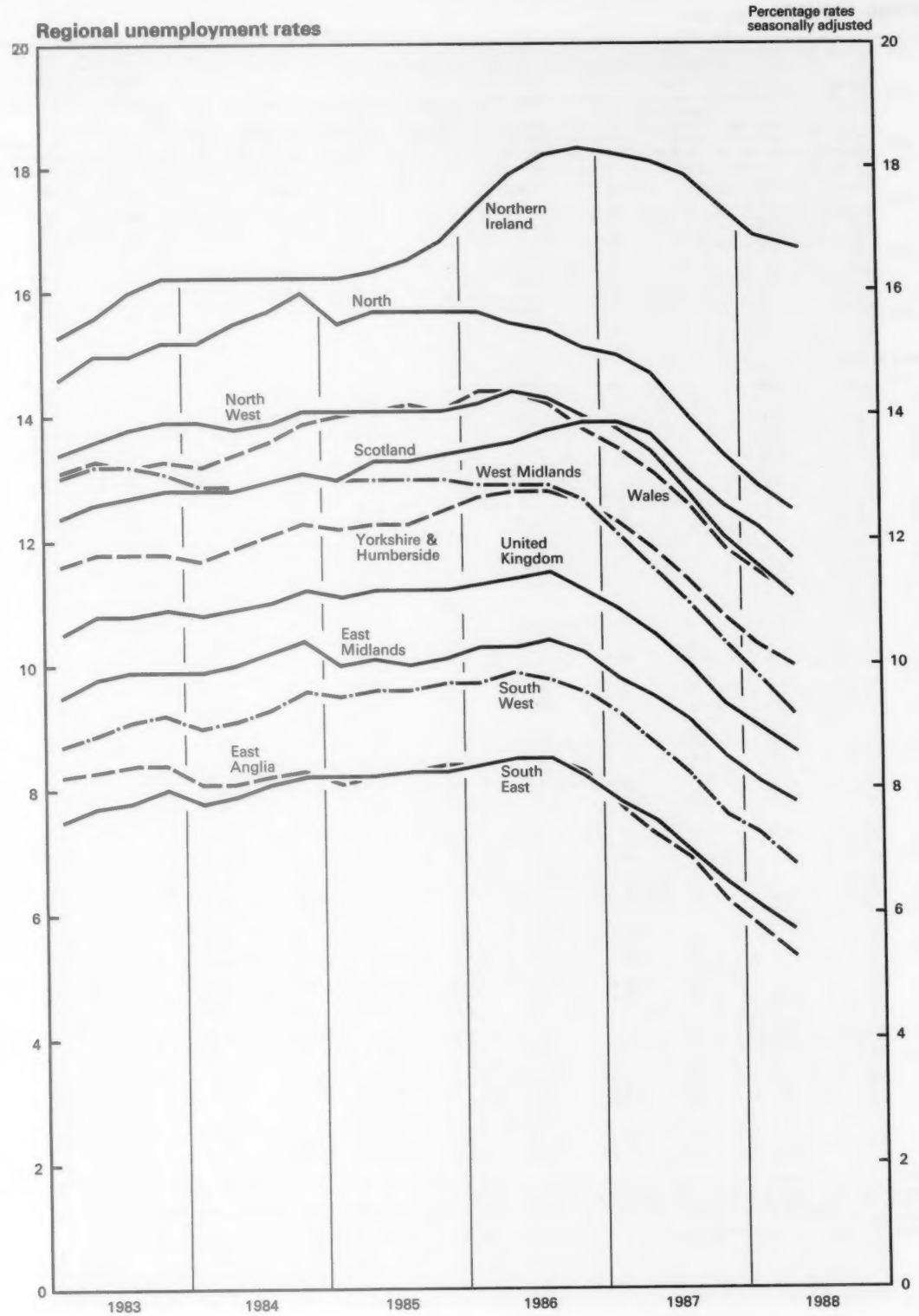
Seasonally adjusted(2,3)

Per cent

		North	Yorkshire and Humberside	East Midlands	East Anglia	South East	South West	West Midlands
		DPBH	DPBI	DPBJ	DPBK	DPBL	DPBM	DPBN
1982	3	13.9	10.9	8.9	7.8	7.1	7.2	12.3
	4	14.1	11.3	9.2	8.2	7.4	8.2	12.6
1983	1	14.6	11.6	9.5	8.2	7.5	8.7	13.0
	2	15.0	11.8	9.8	8.3	7.7	8.9	13.2
	3	15.0	11.8	9.9	8.4	7.8	9.1	13.2
	4	15.2	11.8	9.9	8.4	8.0	9.2	13.1
1984	1	15.2	11.7	9.9	8.1	7.8	9.0	12.9
	2	15.5	11.9	10.0	8.1	7.9	9.1	12.9
	3	15.7	12.1	10.2	8.2	8.1	9.3	13.0
	4	16.0	12.3	10.4	8.3	8.2	9.6	13.1
1985	1	15.5	12.2	10.0	8.1	8.2	9.5	13.0
	2	15.7	12.3	10.1	8.2	8.2	9.6	13.0
	3	15.7	12.3	10.0	8.3	8.3	9.6	13.0
	4	15.7	12.5	10.1	8.4	8.3	9.7	13.0
1986	1	15.7	12.7	10.3	8.4	8.4	9.7	12.9
	2	15.5	12.8	10.3	8.5	8.5	9.9	12.9
	3	15.4	12.8	10.4	8.5	8.5	9.8	12.9
	4	15.1	12.6	10.2	8.3	8.2	9.6	12.7
1987	1	15.0	12.3	9.8	7.7	7.8	9.2	12.1
	2	14.7	11.9	9.5	7.3	7.5	8.7	11.6
	3	14.0	11.4	9.1	6.9	7.0	8.2	11.0
	4	13.4	10.8	8.5	6.2	6.5	7.6	10.4
1988	1	12.9	10.3	8.1	5.7	6.1	7.3	9.8
	2	12.5	10.0	7.8	5.3	5.7	6.8	9.2

		North West	Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
		DPBO	DPBP	DPBQ	DPAJ	DPBR	BCJE
1982	3	12.6	12.5	11.8	9.8	14.8	10.0
	4	12.9	12.8	12.1	10.1	15.4	10.3
1983	1	13.4	13.1	12.4	10.4	15.3	10.5
	2	13.6	13.3	12.6	10.6	15.6	10.8
	3	13.8	13.2	12.7	10.7	16.0	10.9
	4	13.9	13.3	12.8	10.8	16.2	10.9
1984	1	13.9	13.2	12.8	10.7	16.2	10.8
	2	13.8	13.4	12.8	10.7	16.2	10.9
	3	13.9	13.6	13.0	10.9	16.2	11.1
	4	14.1	13.9	13.1	11.1	16.2	11.2
1985	1	14.1	14.0	13.0	11.0	16.2	11.1
	2	14.1	14.1	13.3	11.1	16.3	11.2
	3	14.1	14.2	13.3	11.1	16.5	11.2
	4	14.1	14.1	13.4	11.1	16.8	11.3
1986	1	14.2	14.4	13.5	11.2	17.4	11.3
	2	14.4	14.4	13.6	11.3	17.9	11.4
	3	14.3	14.2	13.8	11.3	18.2	11.4
	4	14.0	13.8	13.9	11.1	18.3	11.2
1987	1	13.8	13.5	13.9	10.7	18.2	10.9
	2	13.4	13.1	13.7	10.3	18.1	10.5
	3	12.8	12.6	13.1	9.8	17.9	10.0
	4	12.1	11.9	12.6	9.2	17.4	9.4
1988	1	11.6	11.5	12.2	8.8	16.9	9.0
	2	11.1	11.1	11.7	8.4	16.7	8.6

1 Excluding school leavers.
2 The seasonally adjusted series have been revised to allow for all discontinuties,to be consistent with the current coverage.
3 The denominators used to calculate unemployment rates are the sum of the appropriate mid-year estimates of employees in employment and the unemployed, self-employed, HM Forces and participants on government training programmes. Recent figures are based on mid-1987 estimates.

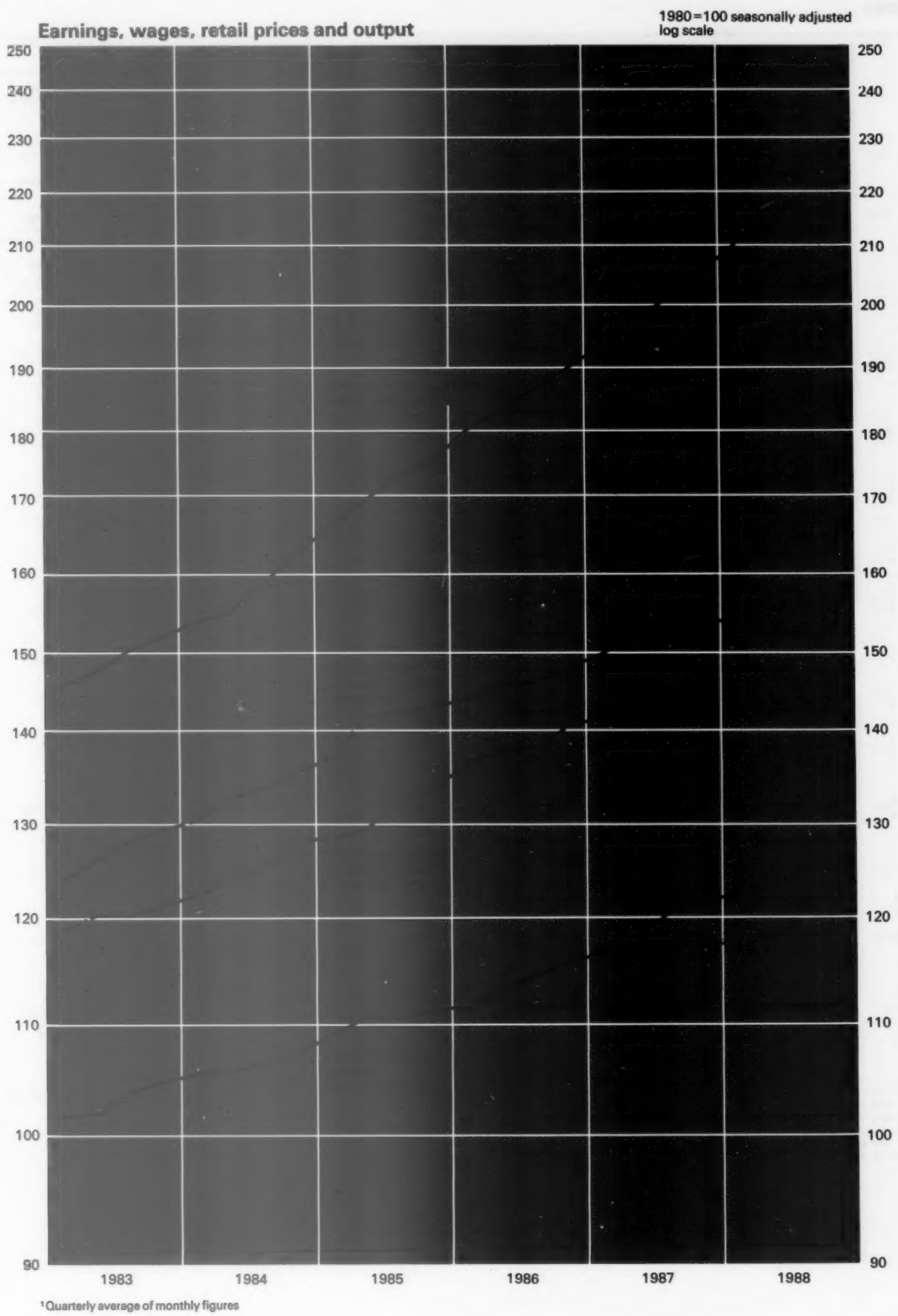

Regional unemployment rates
Percentage rates seasonally adjusted
20
18
16
14
12
10
8
6
4
2
0
Northern Ireland
North
North West
Scotland
West Midlands
Wales
Yorkshire & Humberside
United Kingdom
East Midlands
South West
East Anglia
South East
1983
1984
1985
1986
1987
1988

Average earnings

		January 1980 = 100								1980 = 100	
		Average earnings (GB)(1)								Wages and salaries per unit of output	
		Whole economy	Percentage increase on year earlier	Underlying % change over previous 12 months(2)	Production industries	Percentage increase on year earlier	Underlying % change over previous 12 months(2)	Manufacturing industry	Percentage increase on year earlier	Underlying % change over previous 12 months(2)	Whole economy(3)	Manufacturing industry
		DNAA	DNDZ		DNAE	DNED		DNAC	DNEH		DJDD	DMBG
1980		111.4	..		109.4	..		109.1	..		100.0	100.0
1981		125.8	12.9		124.1	13.4		123.6	13.3		109.9	109.3
1982		137.6	9.4		138.2	11.4		137.4	11.2		115.7	113.9
1983		149.2	8.4		150.0	8.5		149.7	9.0		120.3	114.4
1984		158.3	6.1		158.5	5.7		162.8	8.8		125.3	117.8
1985		171.7	8.5		176.2	11.2		177.6	9.1		131.6	124.5
1986		185.3	7.9		190.8	8.3		191.2	7.7		138.6	131.0
1987		199.8	7.8		206.1	8.1		206.7	8.0		144.6	132.6†
Seasonally adjusted												
		DNAB	DNEA		DNAF	DNEE		DNAD	DNEI			
1984	4	163.3	7.1		163.9	5.5		168.6	8.4		128.6	121.2
1985	1	166.8	7.7		168.6	8.2		172.5	9.0		128.6	121.0
	2	170.2	9.2		174.8	12.7		176.1	10.1		129.7	122.4
	3	173.9	9.3		179.1	12.5		179.3	9.2		133.0	125.9
	4	176.1	7.8		182.5	11.3		182.8	8.4		134.3	128.6
1986	1	180.6	8.3		185.8	10.2		186.1	7.9		136.7	131.7†
	2	183.9	8.0		188.4	7.8		189.3	7.6		137.9	131.1
	3	186.8	7.4		192.0	7.2		192.1	7.2		138.6	130.6
	4	190.1	8.0		197.1	8.0		197.4	8.0		140.6	130.6
1987	1	193.7	7.3		200.1	7.7		200.7	7.8		141.9	133.0
	2	198.0	7.6		203.0	7.7		203.9	7.7		144.1	132.3
	3	201.5	7.9		206.0	8.3		206.4	8.4		144.4	131.7
	4	206.0	8.7		213.4	8.2		214.0	8.4		147.3	133.4
1988	1	210.7	8.8		215.5	8.1		217.0	7.7		150.3	135.0
	2	214.4	8.3		221.5	9.1		221.8	8.8			
				DNEM			DNEN			DNEO		
1985	D	178.1	8.9	7.50	184.2	11.8	8.75	184.7	9.0	8.75		129.3
1986	J	179.1	8.2	7.50	185.5	11.0	8.75	185.5	8.0	8.50		131.5
	F	180.0	8.1	7.50	185.9	10.9	8.50	186.0	8.1	8.25		131.6†
	M	182.6	8.5	7.50	186.0	8.6	8.25	186.9	7.5	8.00		132.1
	A	185.3	8.6	7.50	189.9	8.2	8.25	191.1	7.6	7.75		132.7
	M	182.6	7.6	7.50	186.6	7.7	8.25	187.1	7.3	7.75		130.0
	J	183.9	8.0	7.50	188.8	7.5	8.00	189.8	7.7	7.75		130.5
	J	186.3	8.2	7.50	189.9	6.8	8.00	190.5	6.8	7.75		129.8
	A	187.0	8.0	7.50	192.1	8.0	7.75	191.9	7.7	7.75		131.1
	S	187.1	6.1	7.50	193.9	6.7	7.75	194.0	6.9	7.75		131.0
	O	188.7	8.3	7.50	195.2	8.0	7.75	195.2	7.9	7.75		130.1
	N	190.2	8.1	7.75	196.6	7.8	8.00	197.1	7.8	7.75		130.0
	D	191.3	7.4	7.75	199.6	8.4	8.00	200.0	8.3	8.00		131.6
1987	J	192.8	7.6	7.50	199.9	7.8	7.75	200.0	7.8	7.75		134.9
	F	193.4	7.4	7.50	200.6	7.9	8.00	201.0	8.1	8.00		132.1
	M	194.8	6.7	7.50	199.8	7.4	8.00	201.1	7.6	8.00		132.1
	A	197.4	6.5	7.75	203.6	7.2	8.00	204.4	7.0	8.00		133.0
	M	196.5	8.7	7.75	201.6	8.0	8.00	202.4	8.2	8.00		131.0
	J	198.1	7.7	7.75	203.9	8.0	8.25	204.8	7.9	8.25		132.8
	J	201.3	8.1	7.75	206.4	8.7	8.25	207.6	9.0	8.25		132.5
	A	201.3	7.6	7.75	207.8	8.2	8.25	207.2	8.0	8.50		129.8
	S	201.8	7.9	7.75	208.9	8.3	8.25	210.3	8.4	8.50		132.8
	O	203.8	8.0	8.00	212.1	8.7	8.25	212.4	8.8	8.25		132.8
	N	206.3	8.5	8.25	212.2	7.9	8.25	212.7	7.9	8.25		132.3
	D	208.0	8.7	8.50	215.9	8.2	8.25	216.6	8.4	8.25		135.0
1988	J	209.5	8.7	8.50	215.8	8.0	8.50	216.8	8.4	8.50		133.4
	F	209.2	8.2	8.50	213.6	6.5	8.50	215.3	7.1	8.50		135.7
	M	213.3	9.5	8.50	217.0	8.6	8.25	218.9	8.9	8.50		135.9
	A	215.1	9.0	8.50	223.1	9.6	8.50	223.7	9.4	8.75		136.5
	M	213.6	7.6	8.50	220.4	9.3	8.50	220.3	8.8	8.75		133.3
	J	214.5	8.3	8.50	220.9	8.3	8.75	221.5	8.2	9.00		

1 The seasonal adjustment factors currently used are based on data up to December 1982.
2 Estimated to the nearest quarter of one percentage point. For the derivation of recent underlying changes see 'Employment Topics' item in Employment Gazette June 1988.
3 The method for calculating whole economy unit wage costs is described in 'Employment Gazette', May 1986.

Earnings, wages, retail prices and output

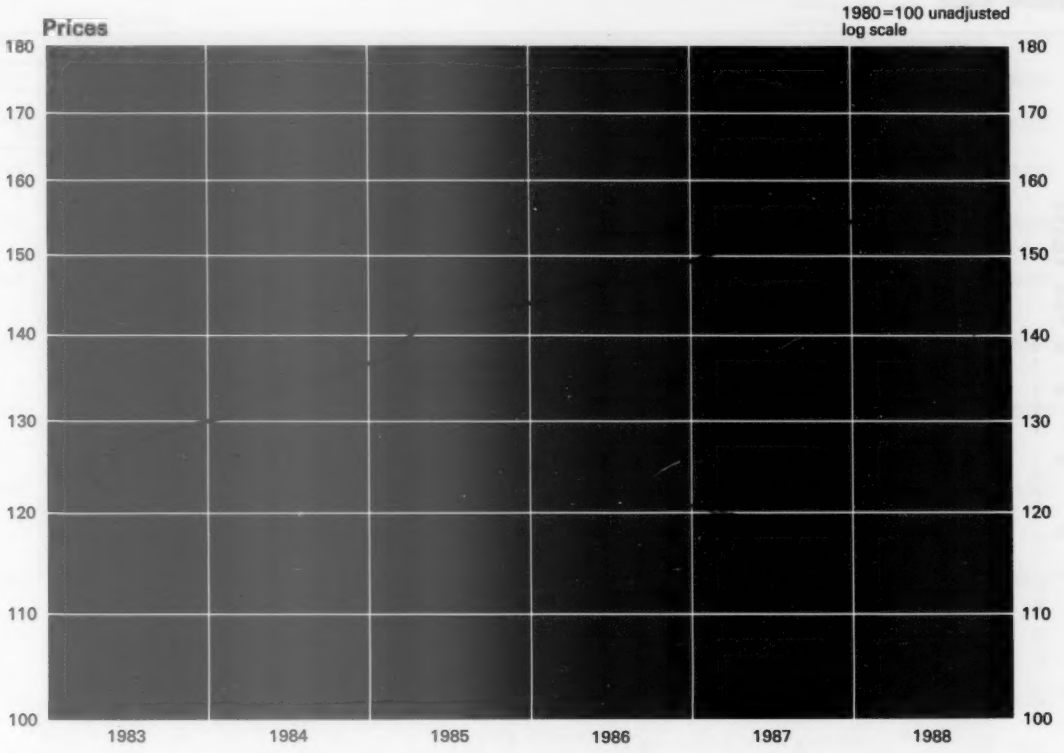


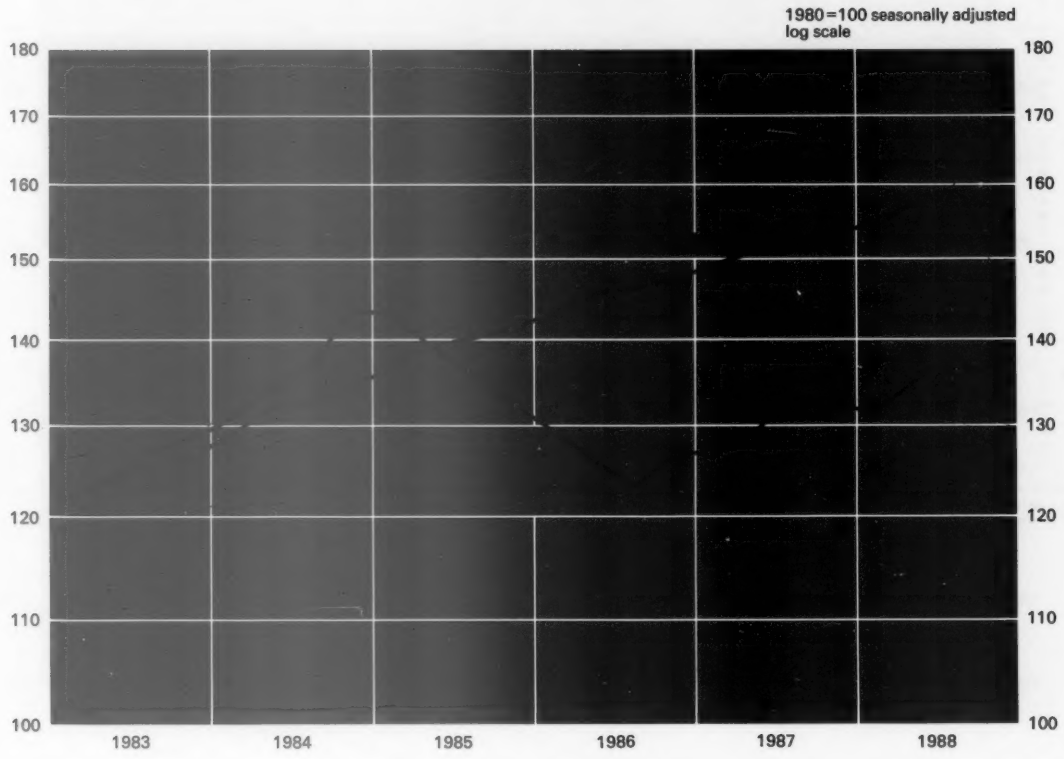
[1] Quarterly average of monthly figures

Prices

		Seasonally adjusted	Unadjusted									Average 1980=100p
		Average 1985=100		Average 1980=100								
		Producer price index		General index of retail prices						Pensioner price index(2,3)		
		Materials and fuel purchased by manufacturing industry	Output All manufactured products Home sales	All items(1,2) Index	Percentage increase on year earlier	Total food	Total non-food	All items other than seasonal food(2) Index	Percentage increase on year earlier	One person household	Two person household	Purchasing power of the pound(4)
		DZDQ	DZCV	FRAG	FRAN	FRAH	FRAI	FRAK	FRAO	FRAL	FRAM	FJAK
1979		..	..	84.8†	13.4†	89.2†	83.6†	84.5†	13.3†	85.8†	86.1†	118
1980		..	..	100.0	18.0	100.0	100.0	100.0	18.4	100.0	100.0	100
1981		..	..	111.9	11.9	108.4	112.7	111.9	11.9	111.4	111.6	88
1982		..	..	121.5	8.6	117.0	122.7	121.4	8.5	121.8	121.7	82
1983		..	..	127.1	4.6	120.7	128.8	127.1	4.7	127.3	127.3	79
1984		99.0†	95.0†	133.4	5.0	127.4	136.0	133.1	4.7	133.6	133.8	75
1985		100.1	100.0	141.5	6.1	131.4	144.1	141.5	6.3	140.1	140.4	71
1986		92.5	104.3	146.3	3.4	135.7	149.1	146.2	3.3	144.6	144.8	68
1987		95.4	108.3	152.4	4.2	139.9	155.6	152.3	4.1	147.9	148.5	66
1984	2	98.7†	94.9†	133.1†	5.2†	128.6†	134.2†	132.4†	4.6†	133.8	134.2	75
	3	100.0	95.5	134.2	4.7	127.7	136.0	134.1	4.6	133.9	134.1	74
	4	101.7	96.5	135.9	4.8	127.7	138.0	136.0	5.2	135.3	135.6	74
1985	1	103.4	98.2	137.6	5.5	130.1	139.6	137.5	5.8	137.5	137.7	73
	2	101.8	99.9	142.3	7.0	132.6	144.8	142.1	7.3	140.6	140.9	70
	3	98.6	100.5	142.7	6.3	131.1	145.7	142.9	6.6	140.5	140.8	70
	4	96.5	101.4	143.4	5.5	131.8	146.4	143.5	5.5	141.7	142.0	70
1986	1	94.6	102.8	144.4	4.9	134.2	147.0	144.3	5.0	143.2	143.3	69
	2	91.9	104.2	146.3	2.8	136.6	148.8	145.9	2.7	144.9	144.9	68
	3	90.6	104.6	146.4	2.6	136.0	149.1	146.3	2.4	144.8	145.1	68
	4	92.8	105.5	148.3	3.4	136.1	151.4	148.3	3.3	145.5	145.9	67
1987	1	93.9	106.9	150.1	3.9	139.0	153.0	149.9	3.8	146.7	147.1	67
	2	95.0	108.0	152.4	4.2	140.8	155.3	152.0	4.1	148.0	148.6	66
	3	96.8	108.6	152.7	4.3	139.0	156.2	152.7	4.4	147.6	148.3	65
	4	95.9	109.8	154.4	4.1	140.7	157.9	154.3	4.1	149.2	150.1	65
1988	1	95.5	111.0	155.1	3.4	143.2	158.3	154.8	3.3	150.4†	151.2†	64
	2	98.6	112.7	158.9	4.2	144.7	162.3	158.5	4.3	153.0	153.7	63†
1986	J	89.5†	104.4†	145.9	2.4	135.8	148.5	145.8	2.2	..	..	69
	A	90.5	104.6	146.3	2.4†	136.2	149.0	146.2	2.2†	..	..	68
	S	91.8	104.9	147.1	3.0	136.1	149.9	147.0	2.8	..	..	68
	O	92.3	105.1	147.3	3.0	135.8	150.3	147.3	2.9	..	..	68
	N	92.9	105.5	148.5	3.5	135.8	151.8	148.6	3.5	..	..	67
	D	93.1	105.8	149.0	3.7	136.7	152.2	149.0	3.7	..	..	67
1987	J	93.8	106.6	149.6	3.9	138.3	152.5	149.4	3.8	..	..	67
	F	93.9	106.9	150.2	3.9	139.3	153.1	149.9	3.7	..	..	67
	M	94.0	107.2	150.5	4.0	139.3	153.5	150.3	4.0	..	..	66
	A	94.5	107.7	152.3	4.2	140.5	155.3	151.8	4.1	..	..	66
	M	94.4	108.1	152.4	4.1	141.4	155.3	152.0	4.1	..	..	66
	J	96.0	108.2	152.4†	4.2	140.5	155.4	152.1	4.3	..	..	66
	J	96.9	108.4	152.3	4.4	138.9	155.7	152.3	4.4	..	..	66
	A	97.1	108.6	152.7	4.4	139.3	156.2	152.7	4.4	..	..	65
	S	96.5	108.9	153.2	4.2	138.9	156.8	153.3	4.3	..	..	65
	O	96.5	109.6	153.9	4.5	139.9	157.6	154.0	4.6	..	..	65
	N	95.6	109.8	154.7	4.1	140.5†	158.3	154.8	4.2	..	..	65
	D	95.6	110.0	154.5	3.7	141.7	157.9	154.3	3.6	..	..	65
1988	J	95.2	110.6	154.5	3.3	142.3	157.7	154.3	3.3	..	..	65
	F	95.6	111.0	155.1	3.3	143.3	158.3	154.8	3.3	..	..	64
	M	95.7	111.4	155.7	3.5	143.7	158.9†	155.4†	3.4	..	..	64
	A	96.8	112.2	158.3	3.9	144.4	161.7	157.9	4.0	..	..	63†
	M	98.2	112.6	158.9	4.2	144.8	162.3	158.5	4.3	..	..	63
	J	100.8	113.2	159.5	4.6	145.0	163.1	159.3	4.7	..	..	63
	J	100.6	113.3	159.6	4.8	143.9	163.5	159.7	4.9	..	..	63

1 The index numbers are given to one decimal place but this does not imply that they can be regarded as accurate to the last digit shown.
2 The index numbers given here are for comparative purposes only and should not be regarded as accurate to the last digit shown. The official Retail Price Index series is shown on page 5.
3 All items except housing.
4 Movements in the purchasing power of the pound are based on movements in the general index of retail prices.


Prices
1980=100 unadjusted
log scale
180
170
160
150
140
130
120
110
100
1983
1984
1985
1986
1987
1988

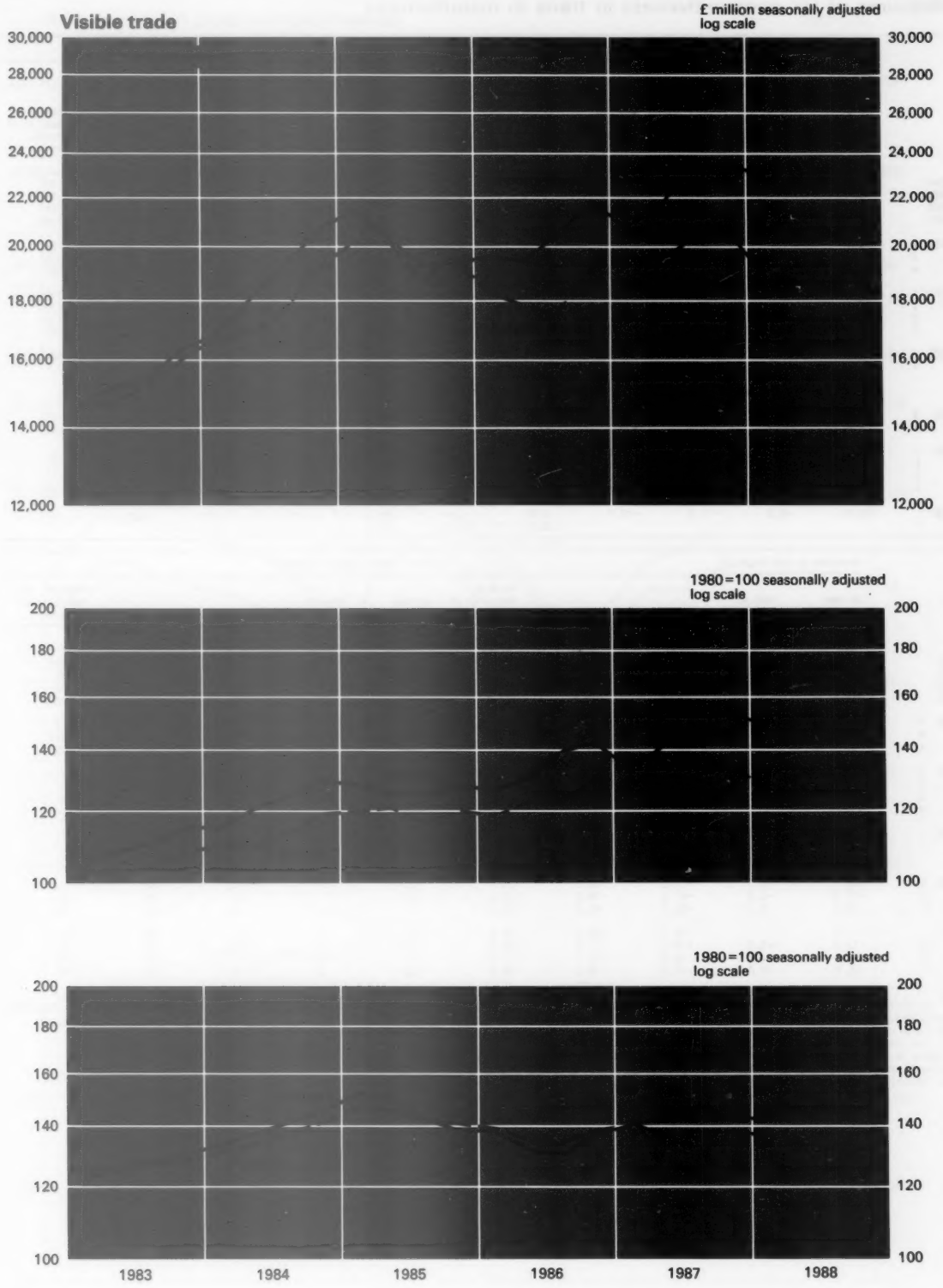

1980=100 seasonally adjusted
log scale
180
170
160
150
140
130
120
110
100
1983
1984
1985
1986
1987
1988

Visible trade

		Seasonally adjusted		Unadjusted		
		1980=100		1980=100		
		Volume indices(1)		Unit value indices(1)		
		Exports	Imports	Exports	Imports	Terms of trade(2)
		CGTR	CGTS	CGTO	CGTP	CGTQ
1980		100.0	100.0	100.0	100.0	100.0
1981		99.1	96.0	108.9	108.4	100.5
1982		101.8	101.4	116.4	117.0	99.5
1983		104.2	110.1	125.9	127.7	98.6
1984		112.9	122.3†	136.2	139.7	97.5
1985		119.1	126.4	143.8	145.5	98.8
1986		123.3	134.6	136.8	134.3	101.9†
1987		130.4	144.6	142.0	138.1	102.8
1985	3	116.4	124.5	141.9	141.7	100.1
	4	119.7	127.6	140.8	138.7	101.5
1986	1	118.1	126.8	139.2	138.0	100.9
	2	122.6	130.4	135.1	132.0	102.3
	3	122.7	139.3	134.5	130.3	103.2
	4	129.9	142.0	138.3	137.0	100.9
1987	1	129.5	133.5	140.8	140.2	100.4
	2	126.6	141.1	141.4	136.7	103.4
	3	130.6	151.1	143.1	138.0	103.7
	4	134.8	152.5	142.9	137.5	103.9
1988	1	126.0†	148.3†	142.7†	136.3†	104.7†
	2	132.5	159.4	144.4	135.0	106.9
1985	J	117.4	127.5	142.4	143.9	99.0
	A	115.3	121.4	141.7	140.5	100.8
	S	116.5	124.5	141.7	140.8	100.6
	O	120.2	125.8	140.8	139.5	100.9
	N	119.2	129.4	140.7	138.0	102.0
	D	119.7	127.6	140.8	138.6	101.6
1986	J	118.7	123.2	141.0	138.7	101.7
	F	120.3	125.9	139.0	138.2	100.6
	M	115.2	131.2	137.7	137.0	100.5
	A	123.6	125.6	135.6	133.5	101.6
	M	121.6	131.3	134.6	131.8	102.1
	J	122.7	134.5	135.2	130.6	103.5
	J	125.3	138.5	133.5	129.2	103.4
	A	117.0	141.0	134.5	129.6	103.8
	S	125.9	139.2	135.4	132.2	102.4
	O	127.4	141.6	137.7	135.6	101.6
	N	131.9	144.6	138.3	136.9	101.0
	D	130.4	140.0	138.8	138.6	100.2
1987	J	125.3	133.3	140.3	140.0	100.2
	F	135.4	135.7	141.0	140.5	100.4
	M	127.9	131.6	141.2	140.1	100.8
	A	131.5	137.9	141.2	137.7	102.5
	M	124.3	144.2	141.1	136.3	103.5
	J	124.1	141.1	141.8	136.2	104.1
	J	130.1	148.8	141.8	137.3	103.3
	A	127.6	154.5	143.7	138.4	103.8
	S	134.1	149.7	143.7	138.3	103.9
	O	131.8	148.4	143.8	138.6	103.7
	N	136.4	154.3	142.9	137.8	103.7
	D	137.1	154.9	141.8	136.2	104.2
1988	J	126.4	151.5†	141.8	135.9†	104.3†
	F	123.6†	147.4	142.8	136.5	104.6
	M	128.1	146.0	143.5†	136.4	105.2
	A	135.4	155.8	144.4	135.5	106.6
	M	129.1	158.7	144.4	134.7	107.2
	J	132.9	163.7	144.4	135.0	107.0

1 On a balance of payments basis.
2 Unit value index for exports expressed as a percentage of unit value index for imports.

Visible trade



Measures of UK competitiveness in trade in manufactures

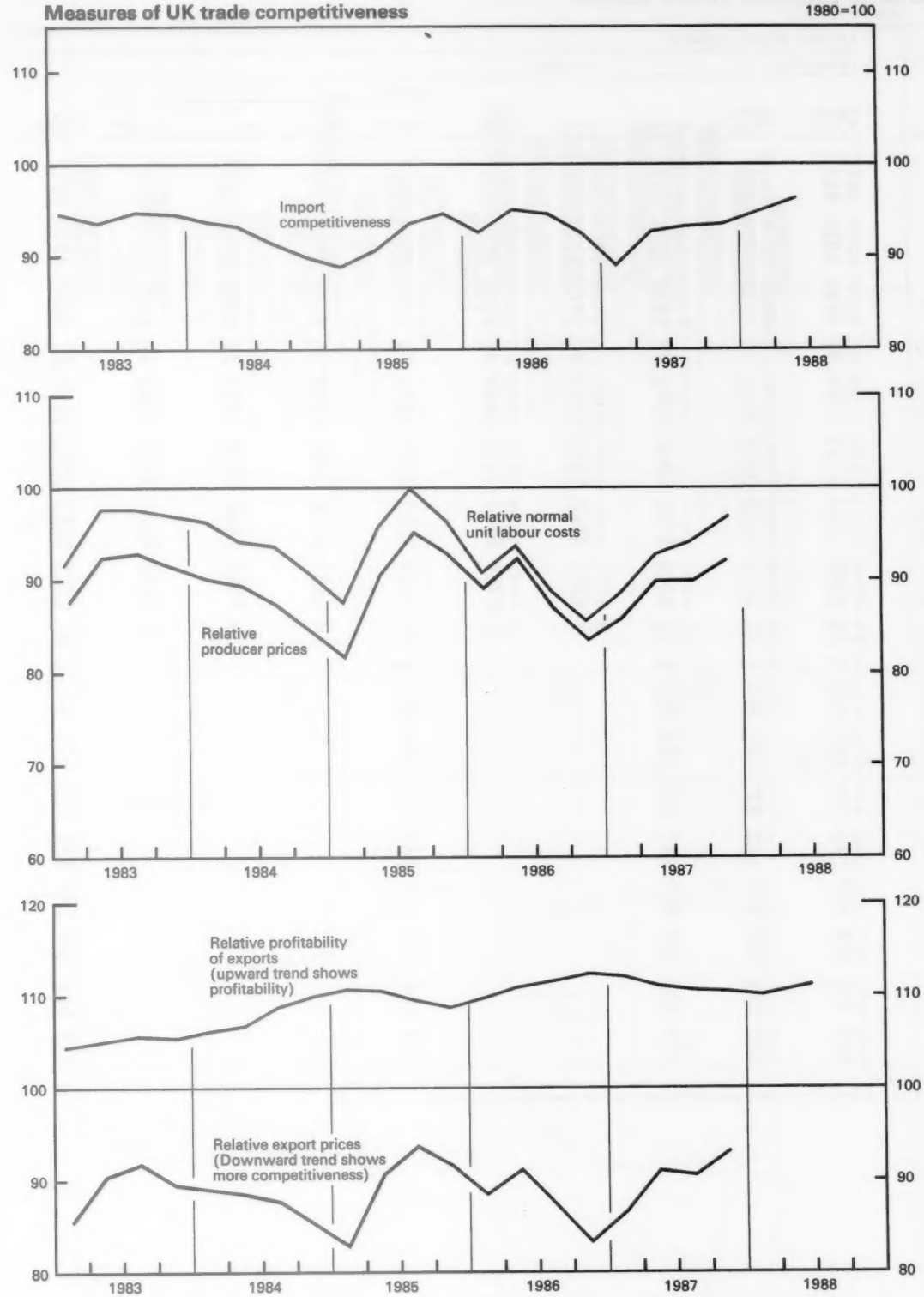
1980 = 100

		Summary measures(1)						Export unit value index(2)				
		Relative export prices(3)	Relative producer prices(3)	IMF index of relative unit labour costs(2) Actual	IMF index of relative unit labour costs(2) Normalised	Import price competitiveness(4)	Relative profitability of exports(4)	United Kingdom	United States	Japan	France	Federal Republic of Germany
		FLAA	FLAB	FLAC	FLAD	FLAE	FLAF	FLAG	FLAH	FLAI	FLAJ	FLAK
1984		87.3	87.7	81.9	93.0	92.0	108.4	77.1	121	98	78	74
1985		89.4	89.9†	81.7†	93.6	91.8	110.4	79.7	124	96	81	75
1986		87.1	87.8	76.5	89.3†	93.9	111.1	92.8	128	116	101	100
1987		90.5†	89.5	76.2	92.3	92.0	111.0	108.3	131	132	118	118
1986	2	90.8	92.1†	80.6†	93.1†	95.0	110.8†	94.7	127	116	98	96
	3	86.7	86.9	75.4	88.7	94.5	111.4	94.5	129	119	104	103
	4	82.9	83.3	70.5	85.3	92.5	112.2	92.5	130	121†	106	107
1987	1	88.3	85.7	72.9	87.6	89.0	112.0	100.9	129	124	114	116
	2	90.9	89.8	76.2	91.7	92.6	111.0	108.1	131	129	117	116
	3	90.6	89.8	76.2	93.1	93.0	110.5	107.4	133	130	116	115
	4	94.1†	92.6	78.6	96.9	93.3	110.3	116.9	131	137	123	123
1988	1	95.6	93.8	82.1	98.7	94.9	110.0	121.3†	132†	141	125†	128†
	2					96.1	110.8	125.8				
		Percentage change, quarter on corresponding quarter of previous year										
1986	3	-7.1	-8.6	-12.2	-9.6	+1.2	+2.1	+11.8	+4	+25	+24	+32
	4	-9.3	-10.3	-16.3	-11.2	-2.2	+2.6	+5.5	+5	+17	+18	+26
1987	1	-2.1	-3.7	-8.4	-3.0	-4.8	+2.0	+12.6	+3	+14	+18	+25
	2	+0.1	-2.5	-5.5	-1.5	-2.5	+0.2	+14.2	+3	+11	+19	+21
	3	+4.5	+3.4	+1.1	+5.0	-1.6	-0.8	+13.7	+3	+9	+12	+12
	4	+13.6	+11.1	+12.9	+13.6	+0.9	-1.7	+26.4	+1	+13	+16	+15
1988	1	+10.8	+9.4	+12.6	+12.7	+6.6	-1.8	+20.3	+2	+14	+10	+9
	2					+3.8	-0.2	+16.4				

		Producer price index(2)					Unit labour costs index(2)				
		United Kingdom	United States	Japan	France	Federal Republic of Germany	United Kingdom(5)	United States	Japan	France	Federal Republic of Germany
		FLAL	FLAM	FLAN	FLAO	FLAP	FLAQ	FLAR	FLAS	FLAT	FLAU
1984		75.8	115.8	95.5	71.4	76.2	68	109†	103	69†	68†
1985		77.7	116.3	94.6	74.2	75.9†	70†	111	104	71	66
1986		91.8	113.8	124.1	96.4	99.8	83	111	153†	94	93
1987		106.5	116.7	140.9	113.2	117.4	93	109	172	107	116
1986	2	84.4	113.4	123.4	93.2	96.8†	85	111	149	90	90
	3	93.6	113.1	131.8	98.4	103.3	84†	111	164	98†	97†
	4	90.5	113.6	126.7	101.9	105.4	80	111	161	99	102
1987	1	98.9	114.8	131.6	110.1	114.5	88	110	166	107	114
	2	108.5†	116.3	140.3	112.8	116.3	93	109	176	107	115
	3	105.3	117.5	137.5	111.3	114.6	92	108	168	105	114
	4	115.5	118.5	148.4†	118.7	124.1	101	109	178	111	121
1988	1	119.9	119.0†	155.7	120.5†	126.3	104	109	172†	112	124
		Percentage change, quarter on corresponding quarter of previous year									
1986	2	+25.0	-3.0	+37.0	+33.0	+34.0	+28	-	+54	+34	+44
	3	+13.0	-3.0	+41.0	+28.0	+32.0	+12	-	+60	+33	+42
	4	+4.0	-3.0	+20.0	+20.0	+23.0	+1	-1	+33	+22	+35
1987	1	+11.0	-	+15.0	+20.0	+22.0	+8	-1	+23	+18	+35
	2	+13.0	+3.0	+14.0	+21.0	+20.0	+10	-2	+18	+19	+28
	3	+12.0	+4.0	+4.0	+13.0	+11.0	+9	-3	+2	+10	+17
	4	+28.0	+4.0	+17.0	+16.0	+18.0	+25	-2	+10	+12	+19
1988	1	+21.0	+4.0	+18.0	+9.0	+10.0	+18	-1	+4	+5	+9

1 The summary measures of competitiveness were described in Economic Trends No 304, February 1979. Revised measures of import price competitiveness and relative profitability of exports were described in an article in Economic Trends No 319, May 1980 - see footnote 3.
2 All the indices are in terms of US dollars.
3 Figures are now base weighted using 1980 export data. Downwards movements indicate greater competitiveness.
4 Excludes erratics (ships, North Sea installations, aircraft, precious stones and silver bullion).
5 The method for calculating whole economy unit labour costs is decribed in 'Employment Gazette', May 1986.

Measures of UK trade competitiveness

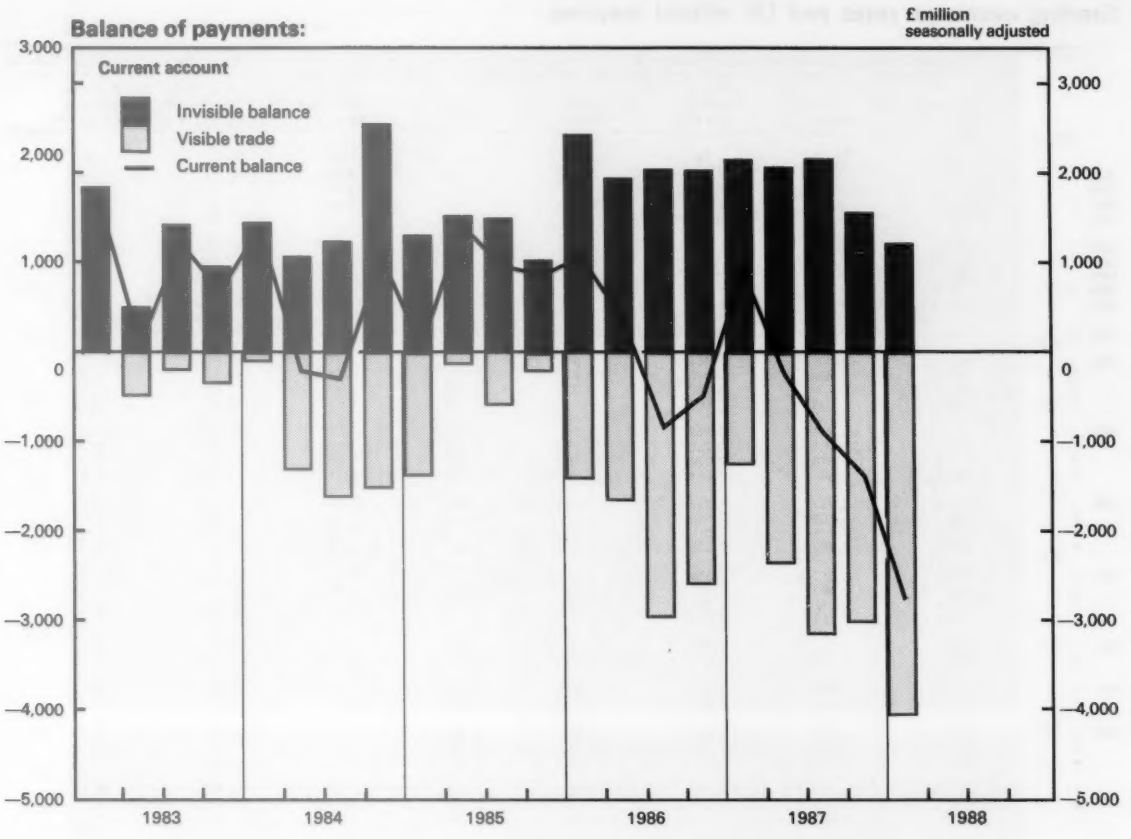


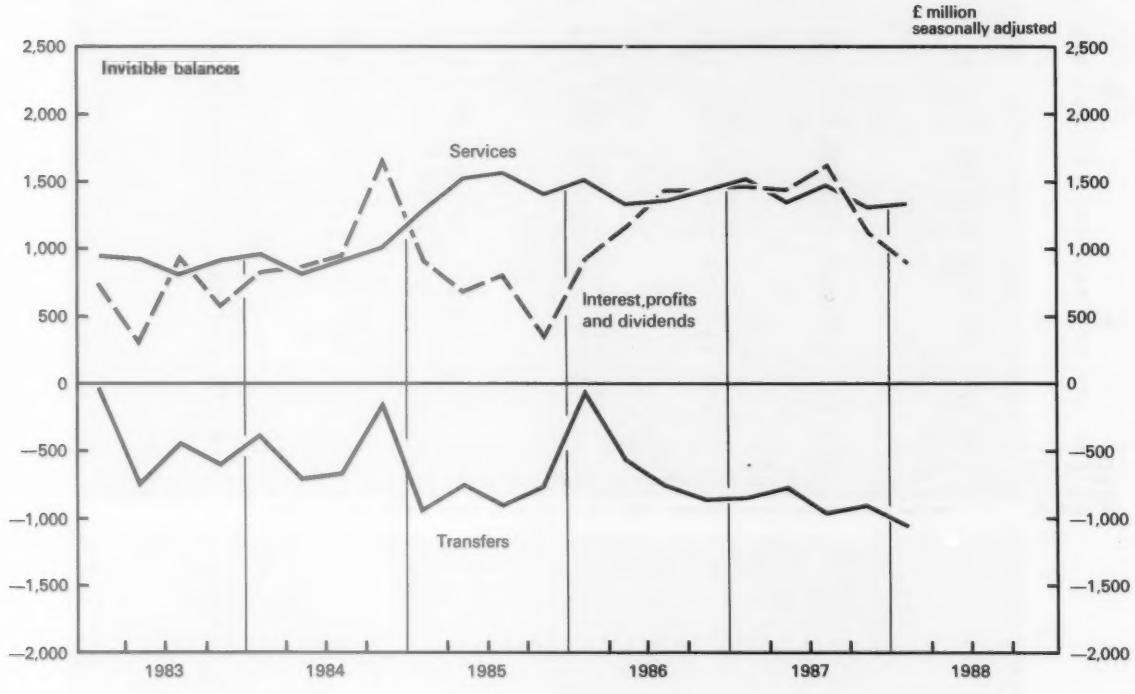
Balance of payments: current account

£ million, seasonally adjusted

		Visible trade			Invisibles		Balances				
		Exports (f.o.b.)	Imports (f.o.b.)	Balance	Credits	Debits	Total(1)	Services	IPD	Transfers	Current balance
		CGKG	CGHK	AIMA	CGKR	CGHT	AIMB	AIMC	AIMD	AIME	AIMF
1977		31 728	34 012	-2 284	21 350	19 178	2 172	3 038	262	-1 128	-112
1978		35 063	36 605	-1 542	24 848	22 341	2 507	3 478	820	-1 791	965
1979		40 687	44 136	-3 449	33 286	30 441	2 845	3 815	1 249	-2 219	-604
1980		47 147	45 794	1 353	41 185	39 483	1 682	3 777	-100	-1 995	3 035
1981		50 668	47 318	3 350	57 185†	53 791	3 394†	3 877†	1 167	-1 650	6 744†
1982		55 330	53 008	2 324	65 216	63 059†	2 157	2 667	1 308	-1 818†	4 481
1983		60 698	61 561	-863	65 690	61 084	4 606	3 712	2 650†	-1 756	3 743
1984		70 263	74 659	-4 396	77 578	71 193	6 385	3 799	4 428	-1 842	1 989
1985		77 988	80 178	-2 190	80 480	75 017	5 463	5 882	2 833	-3 252	3 273
1986		72 678	81 141	-8 463	77 364	68 785	8 579	5 721	5 035	-2 177	116
1987		79 622	89 247	-9 625	80 223	72 158	8 065	5 752	5 735	-3 422	-1 560
1983	3	15 284	15 423	-159	16 111†	14 728†	1 385†	841†	984†	-420†	1 226†
	4	16 036	16 345	-309	16 567	15 595	972	947	606	-581	663
1984	1	16 697	16 767	-70	17 658	16 180	1 478	992	856	-370	1 408
	2	16 839	18 101	-1 262	18 046	16 995	1 051	844	899	-692	-211
	3	17 611	19 187	-1 576	19 874	18 805	1 269	936	971	-638	-307
	4	19 116	20 604	-1 488	22 000	19 413	2 587	1 027	1 702	-142	1 099
1985	1	20 089	21 425	-1 336	21 647	20 320	1 327	1 301	934	-908	-9
	2	20 188	20 292	-104	20 464	18 910	1 554	1 585	707	-718	1 450
	3	16 651	19 209	-558	19 540	18 016	1 524	1 589	824	-889	986
	4	19 060	19 252	-192	18 829	17 771	1 058	1 427	368	-737	686
1986	1	18 201	19 586	-1 385	19 155	16 694	2 461	1 534	939	-12	1 076
	2	17 810	19 414	-1 604	18 814	16 841	1 973	1 357	1 179	-563	369
	3	17 506	20 420	-2 914	19 421	17 343	2 078	1 375	1 453	-750	-836
	4	19 161	21 721	-2 560	19 974	17 907	2 067	1 455	1 464	-852	-493
1987	1	19 530	20 740	-1 210	19 851	17 686	2 185	1 484	1 531	-830	975
	2	19 357	21 674	-2 317	20 104	18 005	2 099	1 461	1 388	-750	-218
	3	20 235	23 344	-3 109	20 475	18 285	2 190	1 645	1 495	-950	-919
	4	20 500	23 489	-2 989	19 793	18 202	1 591	1 162	1 321	-892	-1 398
1988	1	18 828†	22 843†	-4 017†	20 384	19 143	1 241	919	1 364	-1 042	-2 776
	2	20 215	24 547	-4 332			1 500				-2 832
1986	J	5 897	6 581	-684	..	..	658†	..	..	..	-26†
	J	5 934	6 643	-709	..	..	693	..	..	..	-16
	A	5 514	6 834	-1 320	..	..	692	..	..	..	-628
	S	6 058	6 943	-885	..	..	693	..	..	..	-192
	O	6 268	7 067	-799	..	..	689	..	..	..	-110
	N	6 496	7 462	-966	..	..	689	..	..	..	-277
	D	6 387	7 191	-794	..	..	689	..	..	..	-105
1987	J	6 244	6 841	-597	..	..	728	..	..	..	131
	F	6 827	7 066	-240	..	..	729	..	..	..	489
	M	6 459	6 833	-374	..	..	728	..	..	..	354
	A	6 589	7 053	-464	..	..	700	..	..	..	236
	M	6 356	7 416	-1 060	..	..	699	..	..	..	-361
	J	6 412	7 205	-793	..	..	700	..	..	..	-93
	J	6 686	7 677	-991	..	..	730	..	..	..	-261
	A	6 587	8 011	-1 424	..	..	730	..	..	..	-694
	S	6 962	7 657	-695	..	..	730	..	..	..	35
	O	6 802	7 724	-922	..	..	530	..	..	..	-392
	N	6 881	7 938	-1 056	..	..	531	..	..	..	-525
	D	6 817	7 827	-1 010	..	..	530	..	..	..	-480
1988	J	6 209†	7 782†	-1 573†	..	..	414	..	..	..	-1 159
	F	6 176	7 634	-1 457	..	..	413	..	..	..	-1 044
	M	6 441	7 427	-986	..	..	414	..	..	..	-572
	A	6 854	8 021	-1 167	..	..	500	..	..	..	-667
	M	6 542	8 186	-1 644	..	..	500	..	..	..	-1 144
	J	6 819	8 340	-1 521	..	..	500	..	..	..	-1 021

1 Monthly data is one third of the appropriate calendar quarter's estimate or projection.

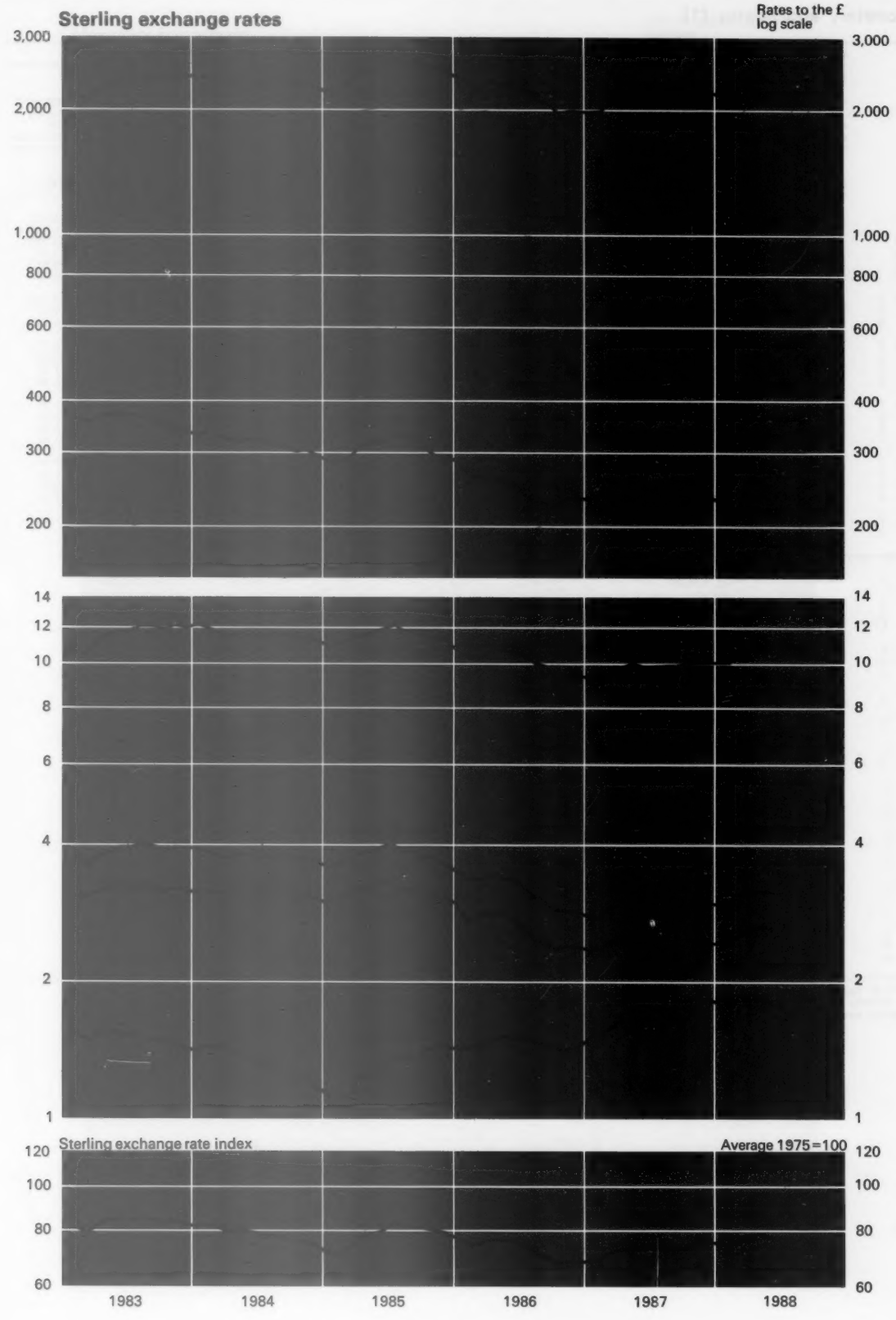

Balance of payments:
£ million
seasonally adjusted
Current account
Invisible balance
Visible trade
Current balance
3,000
2,000
1,000
0
—1,000
—2,000
—3,000
—4,000
—5,000
1983
1984
1985
1986
1987
1988


£ million
seasonally adjusted
Invisible balances
Services
Interest, profits
and dividends
Transfers
2,500
2,000
1,500
1,000
500
0
—500
—1,000
—1,500
—2,000
1983
1984
1985
1986
1987
1988

Sterling exchange rates and UK official reserves

		Sterling exchange rate against major currencies(1)						$ million	Average 1975=100
		Japanese yen	US dollar	Swiss-franc	French franc	Italian lira	Deutsche-mark	UK official reserves(2) at end of period	Sterling exchange rate index
		AJFO	AJFA	AJFD	AJFE	AJFF	AJFH	AIPI	AJHT
1979		465.5	2.123	3.527	9.03	1 762	3.887	22 538	87.3
1980		525.6	2.328	3.894	9.83	1 992	4.227	27 476	96.1
1981		444.6	2.025	3.988	10.94	2 287	4.556	23 347	94.9
1982		435.2	1.749	3.547	11.48	2 364	4.243	16 997	90.5
1983		359.9	1.516	3.182	11.55	2 302	3.870	17 817	83.2
1984		316.8	1.336	3.130	11.63	2 339	3.791	15 694	78.6
1985		307.1	1.298	3.155	11.56	2 463	3.784	15 543	78.3
1986		246.8	1.467	2.835	10.16	2 186	3.183	21 923	72.8
1987		236.5	1.639	2.439	9.84	2 123	2.941	44 326	72.6
1983	4	344.3	1.471	3.174	12.00	2 387	3.935	17 817	83.2
1984	1	331.1	1.435	3.156	11.90	2 385	3.875	16 749	81.7
	2	320.7	1.396	3.136	11.82	2 339	3.784	15 505	79.8
	3	316.2	1.298	3.167	11.62	2 333	3.786	15 280	78.0
	4	299.5†	1.218	3.061	11.39†	2 300	3.717	15 694	75.1
1985	1	287.1	1.116†	3.069	11.09	2 254	3.628	13 528	72.1
	2	315.2	1.258	3.255	11.83	2 475	3.878	14 318	78.9
	3	328.1	1.376	3.234	11.95	2 603	3.920	14 176	82.1
	4	297.6	1.436	3.064	11.32	2 514	3.711	15 543	79.8
1986	1	270.8	1.439	2.849	10.38	2 303	3.382	18 750	75.1
	2	256.4	1.509	2.813	10.77	2 322	3.386	19 188	76.1
	3	232.3	1.489	2.515	10.10	2 140	3.109	22 426	71.9
	4	229.2	1.430	2.378	9.39	1 986	2.868	21 923	68.3
1987	1	236.2	1.543	2.385	9.45	2 015	2.837	27 039	69.9
	2	234.1	1.641	2.448	9.89	2 134	2.964	34 364	72.7
	3	237.8	1.618	2.467	9.92	2 152	2.974	34 808	72.7
	4	237.7	1.753	2.456†	10.06	2 188	2.989	44 326	74.9
1988	1	230.0	1.797	2.473	10.19	2 221	3.013	47 519	75.4
	2	231.2	1.839	2.611	10.64	2 334†	3.142†	48 519†	77.8†
1985	N	293.6	1.440	3.065	11.38	2 523	3.734	15 976	80.0
	D	293.2	1.446	3.043	11.11	2 478	3.632	15 543	79.1
1986	J	284.7	1.423	2.941	10.66	2 368	3.473	15 560	76.6
	F	263.8	1.430	2.792	10.23	2 269	3.335	15 810	74.2
	M	262.1	1.467	2.801	10.23	2 263	3.325	18 750	74.6
	A	262.2	1.499	2.846	10.79	2 332	3.403	18 987	76.2
	M	253.8	1.521	2.817	10.79	2 322	3.387	19 186	76.1
	J	252.8	1.509	2.775	10.74	2 312	3.369	19 188	75.9
	J	239.4	1.508	2.633	10.45	2 229	3.248	19 083	74.0
	A	229.2	1.487	2.470	9.99	2 111	3.066	18 924	71.4
	S	227.6	1.472	2.432	9.83	2 073	3.003	22 426	70.4
	O	223.1	1.428	2.344	9.36	1 980	2.861	21 992	67.8
	N	232.0	1.425	2.400	9.43	1 996	2.884	22 006	68.5
	D	233.2	1.438	2.395	9.39	1 984	2.860	21 923	68.5
1987	J	232.9	1.507	2.348	9.33	1 982	2.797	21 952	68.8
	F	234.3	1.527	2.351	9.28	1 981	2.765	22 251	69.0
	M	241.1	1.592	2.450	9.72	2 078	2.921	27 039	71.9
	A	232.9	1.630	2.438	9.83	2 106	2.952	29 807	72.3
	M	234.1	1.666	2.451	9.96	2 152	2.980	34 679	73.3
	J	235.3	1.629	2.456	9.89	2 143	2.962	34 364	72.6
	J	241.8	1.610	2.472	9.90	2 153	2.974	34 915	72.8
	A	235.7	1.597	2.458	9.90	2 149	2.967	34 365	72.3
	S	235.8	1.648	2.470	9.96	2 155	2.982	34 808	73.1
	O	238.0	1.662	2.482	10.00	2 164	2.992	41 399	73.8
	N	240.3	1.775	2.453	10.13	2 200	2.986	41 281	75.4
	D	234.7	1.827	2.433	10.12	2 201	2.987	44 326	75.8
1988	J	229.9	1.798	2.424	10.05	2 189	2.977	43 093	75.0
	F	227.0	1.758	2.446	10.08	2 196	2.982	42 927	74.3
	M	232.9	1.832	2.541	10.43	2 272	3.072	47 519	76.8
	A	234.4†	1.878†	2.597†	10.65†	2 329†	3.137†	47 857†	78.2†
	M	233.2	1.869	2.638	10.72	2 353	3.166	48 533	78.4
	J	226.5	1.779	2.600	10.55	2 320	3.123	48 519	76.2
	J	226.9	1.704	2.613	10.60	2 328	3.144	49 826	75.6

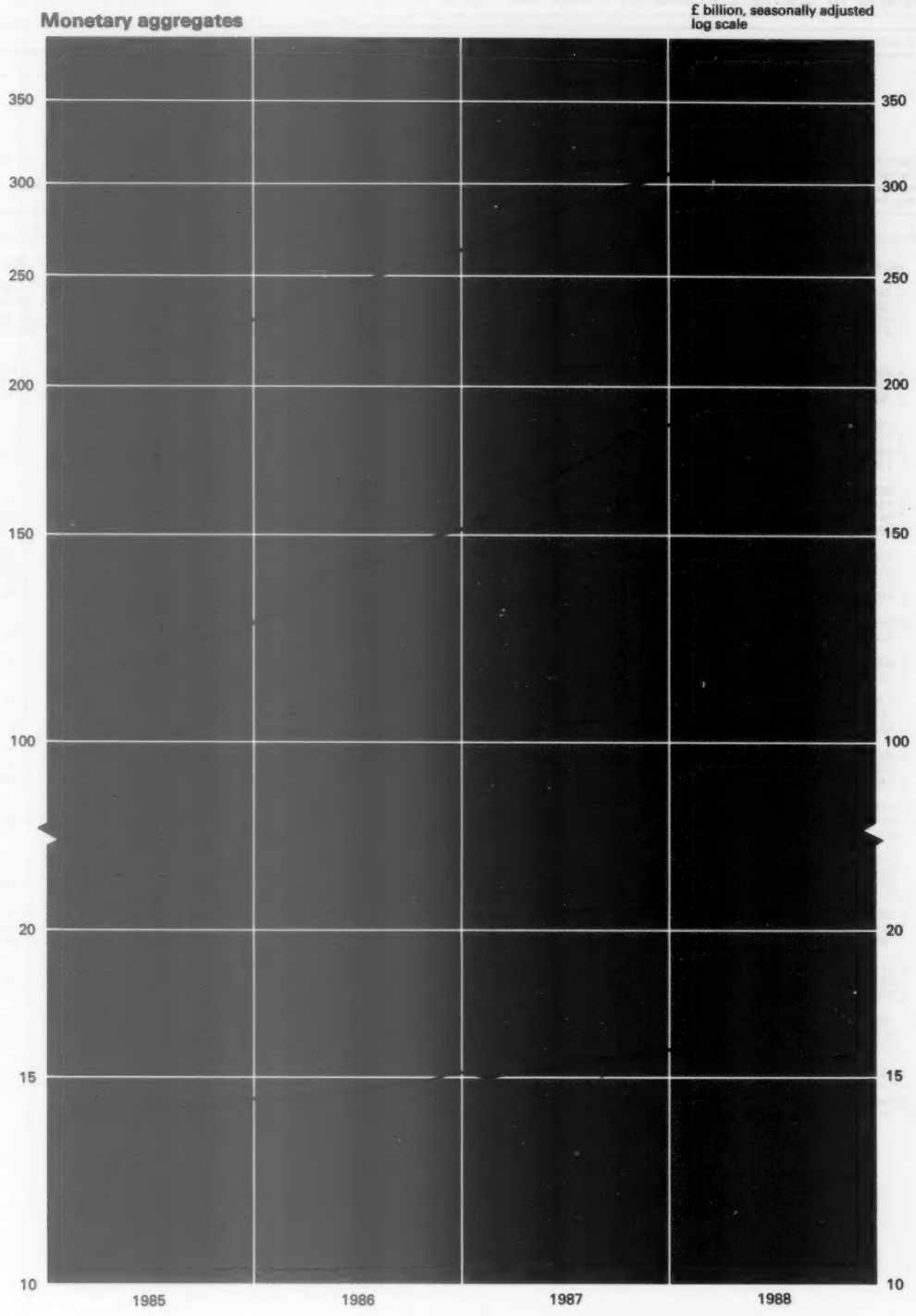
1 Average of daily Telegraphic Transfer rates in London.
2 Apart from transactions, the level of official reserves is affected by changes in the dollar valuation of gold, Special Drawing Rights and convertible currencies. From end-March 1979 these rates are revised annually. These valuation changes are described in detail in the description of Table 10.3 in the Financial Statistics Explanatory Handbook, where the values of the annual changes are also shown.


Sterling exchange rates
Rates to the £
log scale
3,000
2,000
1,000
800
600
400
300
200
14
12
10
8
6
4
2
1
Sterling exchange rate index
Average 1975=100
120
100
80
60
1983
1984
1985
1986
1987
1988

Monetary aggregates (1)

		M0				M3				M4			
		Unadjusted		Seasonally adjusted		Unadjusted		Seasonally adjusted		Unadjusted		Seasonally adjusted	
		Amount outstanding(2)		Amount outstanding	Velocity of circulation	Amount outstanding		Amount outstanding	Velocity of circulation	Amount outstanding		Amount outstanding	Velocity of circulation
		£ million	Annual percentage change	£ million	Ratio	£ million	Annual percentage change	£ million	Ratio	£ million	Annual percentage change	£ million	Ratio
		AVAD	AVAK	AVAE	AVAM	AGAJ	AUZO	AGBC	ADBY	AUYM	AUZP	AUYN	AUYU
1984		13 472	5.53	13 468	24.04	111 956	9.73	109 905	3.08	199 398†	13.35†	198 760†	1.73†
1985		14 095	3.82	14 086	25.19	126 976	13.40	124 484	3.02	225 293	12.98	224 882	1.67
1986		14 885	5.16	14 864	25.92	151 109	18.23	150 135	2.74	281 212	15.42	281 040	1.55
1987		15 338	4.24	15 355	27.05	185 760	22.94	184 535	2.47	303 999	16.33	303 821	1.47
1984	2	13 314	5.21	13 348	23.90	105 534	7.88	104 912	3.07	187 693†	12.53	187 409†	1.73†
	3	13 614	5.81	13 563	24.01	107 767	9.09	107 374	3.08	192 290	13.08†	193 177	1.71
	4	13 862	5.53	13 789	24.20	111 956	9.73	109 905	3.08	199 398	13.35	198 760	1.69
1985	1	13 704	5.43	13 886	24.71	114 077	11.48	114 160	3.08	205 671	13.82	208 203	1.70
	2	14 040	5.13	14 075	25.05	118 016	11.44	117 139	3.05	212 213	12.85	211 915	1.69
	3	14 212	3.79	14 180	25.28	122 954	13.69	121 598	3.00	218 441	13.38	218 878	1.66
	4	14 425	3.82	14 261	25.72	126 976	13.40	124 484	2.97	225 293	12.98	224 882	1.65
1986	1	14 255	4.13	14 405	25.73	133 381	16.66	132 918	2.90	235 826	14.53	236 092	1.61
	2	14 464	3.24	14 523	25.82	140 327	18.67	140 119	2.74	245 853	15.72	246 092	1.55
	3	14 782	4.83	14 728	25.95	146 487	19.08	145 776	2.69	252 989	15.78	253 183	1.53
	4	15 159	5.16	15 000	26.18	151 109	18.23	150 135	2.64	281 212	15.42	281 040	1.52
1987	1	14 808	3.52	15 042	26.44	159 620	19.17	159 090	2.59	270 275	14.06	270 562	1.51
	2	15 131	4.19	15 173	26.91	168 078	19.30	167 325	2.49	281 134	13.94	281 098	1.48
	3	15 519	5.17	15 467	27.38	176 093	19.66	175 656	2.45	292 015	14.97	292 532	1.47
	4	15 894	4.24	15 738	27.46	185 760	22.94	184 535	2.37	303 999	16.33	303 821	1.44
1988	1	15 622	5.36	15 833	27.58	193 178	20.94	192 197	2.33	315 582	16.82	316 219	1.42
	2	16 107	7.72	16 168		202 212	20.26	201 169		328 561	16.84	327 165	
Calendar month													
1986	J	14 477	3.24	14 597	..	140 327†	18.67†	140 119†	..	245 853†	15.72†	246 092†	..
	J	14 720	3.10	14 613	..	141 891	18.42	140 879	..	248 284	15.47	247 444	..
	A	14 856	4.11	14 742	..	142 236	16.50	141 695	..	249 182	14.66	249 686	..
	S	14 770	4.83	14 829	..	146 487	19.08	145 776	..	252 989	15.78	253 183	..
	O	14 693	4.88	14 831	..	147 812	18.50	147 188	..	255 861	15.86	256 398	..
	N	14 827	5.22	14 975	..	149 983	18.69	148 540	..	258 437	15.81	258 677	..
	D	15 966	5.16	15 194	..	151 109	18.23	150 135	..	281 212	15.42	281 040	..
1987	J	14 922	4.06	15 102	..	150 092	17.69	152 123	..	261 369	13.94	262 057	..
	F	14 694	4.07	14 982	..	153 011	19.01	154 984	..	263 813	13.91	266 232	..
	M	14 809	3.52	15 043	..	159 620	19.17	159 090	..	270 275	14.06	270 562	..
	A	15 134	5.27	15 120	..	162 850	20.54	162 632	..	273 857	14.66	274 716	..
	M	15 176	4.40	15 188	..	166 134	19.02	164 973	..	277 333	13.79	277 282	..
	J	15 083	4.19	15 212	..	168 078	19.30	167 325	..	281 134	13.94	281 098	..
	J	15 506	5.34	15 401	..	172 355	20.98	170 995	..	286 496	14.97	285 457	..
	A	15 519	4.46	15 440	..	174 502	22.21	173 250	..	289 102	15.61	289 171	..
	S	15 533	5.17	15 560	..	176 093	19.66	175 656	..	292 015	14.97	292 532	..
	O	15 501	5.50	15 659	..	181 890	22.52	182 127	..	297 469	15.82	299 125	..
	N	15 548	4.86	15 708	..	183 098	21.55	181 953	..	299 016	15.26	299 913	..
	D	16 633	4.24	15 847	..	185 760	22.94	184 535	..	303 999	16.33	303 821	..
1988	J	15 639	4.80†	15 801	..	183 851	22.47	185 704	..	304 544	16.61	304 900	..
	F	15 477†	5.33	15 783†	..	184 540	20.61	186 598	..	305 940	16.08	307 996	..
	M	15 751	6.36	15 916	..	193 178	20.94	192 197	..	315 582	16.82	316 219	..
	A	16 025	5.89	16 055	..	194 589	19.41	195 239	..	317 565	16.01	318 247	..
	M	16 048	5.75	16 132	..	197 138	18.58	196 442	..	321 780	16.08	321 143	..
	J	16 247	7.72	16 317	..	202 212	20.26	201 169	..	328 561	16.84	327 165	..

1 A fuller range of monetary aggegates is published monthly in 'Financial Statistics.'
2 The monthly figures for M0 give the average of the amounts outstanding each Wednesday during the calendar month.


Monetary aggregates
£ billion, seasonally adjusted
log scale
350
300
250
200
150
100
20
15
10
1985
1986
1987
1988

Counterparts to changes in money stock M3 (1)

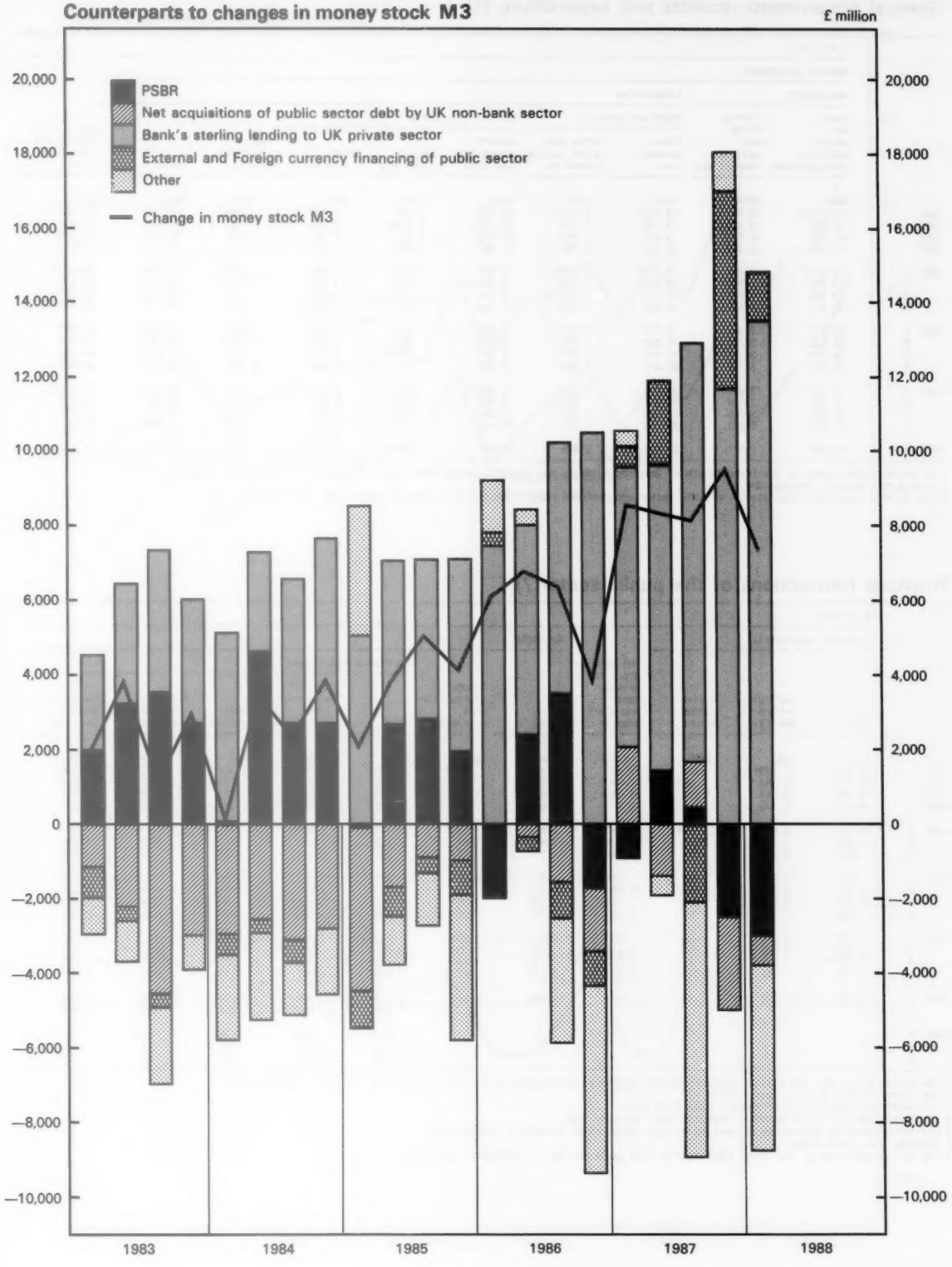
£ million

		Public Sector Borrowing Requirement	Purchases by UK non-bank private sector of: Other public sector debt	Central government debt: British government stocks	Central government debt: Other	External and foreign currency financing of public sector: Purchase of British government stocks by overseas sector	External and foreign currency financing of public sector: Other	Banks' sterling lending to UK non-bank private sector	External and foreign currency transactions of UK banks	Net non-deposit sterling liabilities	Domestic counterparts	External and foreign currency counterparts	M3
		1	2	3	4	5	6	7	8	9	10	11	12
		ABEN	AGFA	ABGN	ABHJ	AARC	AQGA	AGFD	AGFJ	AGGG	AGFE	AGFF	AGCJ
1984		10 284	137	7 454	-3 838	969	-640	16 541	-1 887	-2 182	15 671	-3 803	9 893
1985		7 468	1 443	6 364	-2 892	2 920	-217	20 958	500	-3 013	20 618	-2 647	14 999
1986		2 420	2 229	3 323	-2 456	2 115	171	30 445	-516	-3 700	29 285	-2 475	23 147
1987		-1 415	1 881	189	-2 188	5 350	11 800	38 668	-3 668	-4 640	35 503	2 670	34 678
1984	2	4 638	-223	1 429	-831	63	-317	2 725	-1 032	100	4 880	-1 411	3 569
	3	2 778	-166	2 053	-824	204	-420	3 818	-84	-600	3 553	-708	2 246
	4	2 752	881	2 224	-1 378	356	329	4 943	-580	-565	4 955	-606	3 782
1985	1	-68	-50	3 656	-693	716	-276	7 089	2 033	-1 593	2 631	1 041	2 110
	2	2 712	178	960	-844	1 277	475	4 406	246	-993	5 488	-580	3 939
	3	2 839	493	730	-618	377	-44	4 309	-32	-916	6 292	-454	4 924
	4	1 985	822	1 018	-737	550	-372	5 154	-1 747	489	6 207	-2 674	4 026
1986	1	-1 882	102	92	-68	72	401	7 520	812	-571	5 582	1 115	6 136
	2	2 431	1 681	819	-1 158	768	388	5 650	1 221	-1 661	7 762	829	6 949
	3	3 541	109	770	-810	552	-456	6 733	-874	-574	8 792	-1 871	6 350
	4	-1 670	337	1 642	-420	723	-182	10 542	-1 675	-894	7 149	-2 548	3 712
1987	1	-868	568	-1 625	-140	698	1 333	7 502	645	-1 444	8 573	1 481	8 562
	2	1 450	835	1 048	-1 115	1 752	4 048	8 176	-634	-1 534	7 533	1 638	8 457
	3	472	498	-1 253	-437	2 407	263	11 252	-2 027	-717	12 816	-4 173	8 073
	4	-2 469	-20	2 021	-496	493	5 956	11 738	-1 652	-945	6 581	3 724	9 586
1988	1	-3 023	-109	600	-102	336	1 667	13 582	-2 488	-1 259	9 583	-1 281	7 307
	2	-1 508	672		-135		568	14 731			13 983		9 082
1986	A	1 630	36	-1 000	-477	-221	-68	1 796	..	..	1 985	..	326
	S	2 133	37	323	117	300	-237	1 992	..	..	4 604	..	4 441
	O	-129	-31	-1 147	-80	-240	-180	3 315	702	-870	1 909	282	1 321
	N	-57	422	-628	-321	-254	-26	3 253	128	-358	2 680	-152	2 170
	D	-1 484	-54	135	-19	-231	44	3 974	-2 437	285	2 560	-2 824	221
1987	J	-3 667	34	493	351	184	248	1 492	-516	304	-1 282	-99	-1 077
	F	-350	175	452	-209	-229	142	2 577	193	134	2 517	232	2 883
	M	3 149	359	746	-282	-719	943	3 433	968	-1 846	7 338	1 264	6 756
	A	2 012	265	-202	-83	-590	1 789	1 118	-1 114	12	2 776	441	3 229
	M	-161	481	-814	-454	-12	2 855	2 346	-363	-592	1 194	2 683	3 285
	J	-401	89	-58	-598	-1 123	-596	4 712	843	-927	3 563	-893	1 943
	J	-416	266	639	-121	-1 209	401	4 599	-1 531	1 640	4 973	-2 345	4 288
	A	627	428	279	-233	-533	-323	1 134	796	-29	2 242	-66	2 147
	S	261	-196	259	-83	-589	185	5 519	-1 291	-2 408	5 601	-1 535	1 658
	O	-1 005	-11	122	-69	-979	3 788	2 965	629	357	1 934	3 506	5 797
	N	-1 624	326	-1 435	-247	513	-150	3 305	168	348	221	637	1 206
	D	160	-335	-654	-180	-80	2 318	5 468	-2 470	-1 643	4 426	-200	2 583
1988	J	-6 311	-106	-491	223	-238	373	5 100	-1 676	1 069	-1 533	-1 561	-2 025
	F	-497	137	-712	-87	-313	-40	2 458	-457	174	1 257	-738	693
	M	3 785	-140	548	-238	269	1 334	6 004	-372	-2 583	9 859	1 363	8 639
	A	-1 068	429	-775	-96	-311	302	4 366	-1 673	299	2 756	-1 644	1 411
	M	-527	-68	501	42	20	186	3 111	-225	-460	2 990	17	2 547
	J	107	311		-79		80	7 254	-2 060	-893	8 237	-2 220	5 124
	J	-1 686											

Relationships between columns: 10 = 1+2+3+4+7; 11 = 5+6+8; 12 = 9+10+11

1 A wider range of figures is published monthly in "Financial Statistics."

Counterparts to changes in money stock M3



General government receipts and expenditure (1)

£ million

		General government									
		Receipts(2)		Expenditure							
		Taxes, and social security contributions	Trading income rent, royalties interest etc.	Goods and services		Current and capital transfers			Net lending etc(3)	Total	Public expenditure planning total
				Final consumption	Gross domestic capital formation	Current grants and subsidies	Capital transfers	Debt interest			
		ABKA	ABKB	AAXI	ABKC	ABKD	AAYG	AAXL	ABAA	ABAB	ABAZ
1984		123 310†	12 857†	69 875†	6 401†	52 718	3 796	15 758	-1 664†	146 878†	125 992†
1985		134 602	14 525	74 145	7 199	57 231†	3 316†	17 474	-1 734	157 621	133 624
1986		143 507	12 903	79 607	7 285	59 248	3 121	17 191	-3 999	162 404	137 715
1987		155 358	13 254	85 343	6 784	61 857	3 096	17 672†	-6 319	168 182	142 611
1985	1	35 317†	3 684	18 540†	2 470†	14 824	1 037	4 641	-247†	41 264†	38 091†
	2	29 882	3 623†	18 352	1 293	13 997†	651†	3 837	-1 654	36 477	30 415
	3	34 490	3 528	18 311	1 731	14 216	818	4 673	-47	39 702	32 900
	4	34 913	3 690	18 942	1 705	14 194	810	4 323	214	40 178	34 218
1986	1	37 815	3 381	19 710	2 831	14 258	949	4 822	-599	41 966	36 176
	2	32 940	3 172	19 645	1 206	14 753	660	3 743	-1 216	38 780	32 569
	3	34 748	3 132	19 775	1 557	15 034	778	4 727	56	41 910	34 889
	4	38 004	3 216	20 477	1 691	15 203	734	3 899	-2 240	39 748	34 081
1987	1	40 166	3 477	20 859	2 552	15 553	969	5 220†	-518	44 613	37 822
	2	34 705	3 104	20 877	935	15 503	619	3 558	-3 059	38 367	32 655
	3	39 220	3 086	21 338	1 547	15 392	758	4 962	-1 534	42 396	35 282
	4	41 267	3 587	22 269	1 750	15 409	750	3 932	-1 208	42 806	36 852
1988	1	45 288	3 631	22 432	2 879	16 380	969	5 077	619	48 318	41 284

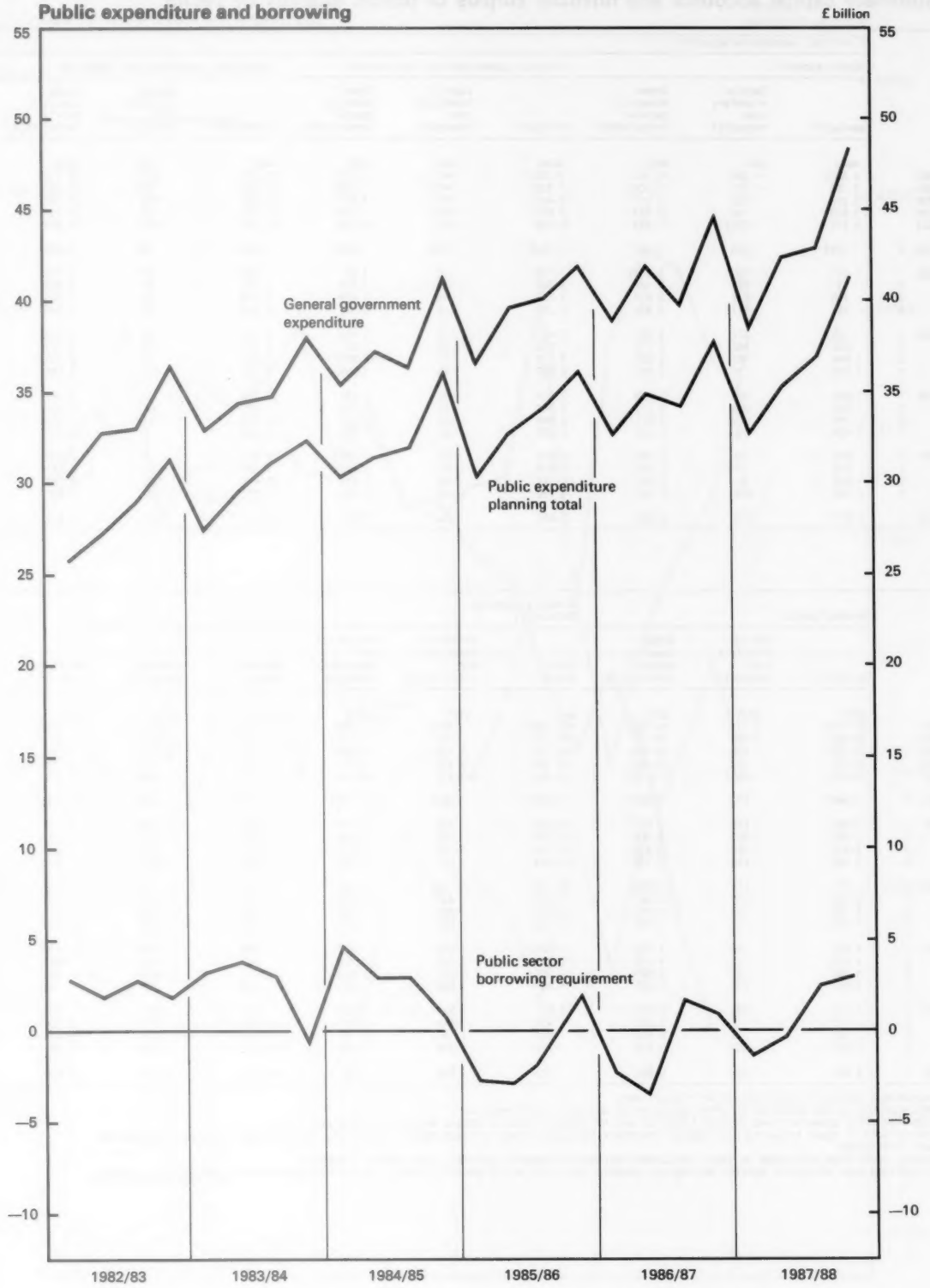
1 An article describing the new presentation of government income and expenditure was published in the March 1977 issue of Economic Trends.
2 Excluding financial transactions.
3 Net lending to public corporations, private sector and overseas; cash expenditure on company securities, etc.(net).

Financial transactions of the public sector(7)

£ million

		Financial deficit(1)				Receipts					
								Borrowing requirement(4)			
		Total	General government(2)	Public corporations	Net lending etc., to private sector and overseas(3)	Total	Financial transactions (net receipts)	Total	Central government (own account)(5)	Local authorities	Public corporations	Seasonally adjusted Total(6)
		AABE	AABC	AABD	ABKG	ABKH	ABKI	ABEN	ABEB	ABEG	ABEM	ABFB
1984		-12 873†	12 379†	-494	-2 427	10 446†	170†	10 284†	6 661	2 304	1 319†	10 284†
1985		-10 173	10 238	65†	-2 282	7 891	423	7 468	6 242	1 577†	-351	7 468
1986		-8 776	10 042	1 266	-4 085†	4 691	2 270	2 420	2 515†	673	-768	2 420
1987		-5 151	6 140	989	-6 170	-1 019	379	-1 415	-1 062	1 011	-1 364	-1 415
1985	2	-4 615†	4 625†	10†	-1 383	3 232†	520†	2 712†	2 667	472†	-427†	1 535†
	3	-1 979	1 731	-248	-517	1 462	-1 377	2 839	2 444	641	-246	1 983
	4	-687	1 371	684	-446	241	-1 744	1 985	2 317	-739	407	1 058
1986	1	-922	1 374	452	-721	201	2 083	-1 882	-3 157	1 296	-21	542
	2	-3 543	3 895	352	-1 061	2 482	51	2 431	3 072	-103	-538	2 136
	3	-4 249	3 991	-258	-50†	4 199	657	3 541	3 636†	130	-225	1 841
	4	-62	782	720	-2 253	-2 191	-521	-1 670	-1 036	-650	16	-2 099
1987	1	-1 676	1 510	-166	-605	1 071	1 938	-868	-1 127	861	-602	217
	2	-3 188	3 683	495	-2 440	748	-702	1 450	1 725	194	-469	767
	3	-1 738	1 691	-47	-1 702	36	-440	472	340	326	-194	338
	4	1 451	-744	707	-1 423	-2 874	-417	-2 469	-2 000	-370	-99	-2 737
1988	1	1 263	-1 182	81	-36	-1 299	1 857	-3 023	-3 458	1 213	-778	-1 759
	2							-1 508	-1 495	354	-367	-1 899
1988	M							527†	-458†	-19†	50†	
	J							-107	504	-391	6	
	J							1 686	-1 462	-188	36	

1 The excess of current and capital expenditure over receipts; corresponds to a negative figure of financial surplus/deficit.
2 Top table, columns 3 to 7, less 1 and 2.
3 Including cash expenditure on company securities (net).
4 Redefined: see article in Economic Trends No 364, February 1984.
5 Excluding borrowing matched by on-lending to local authorities and public corporations.
6 Calendar year constrained.
7 Due to the inclusion of the latest PSBR figures this table may not be internally consistent.


Public expenditure and borrowing
£ billion
55
50
45
40
35
30
25
20
15
10
5
0
—5
—10
General government expenditure
Public expenditure planning total
Public sector borrowing requirement
1982/83
1983/84
1984/85
1985/86
1986/87
1987/88

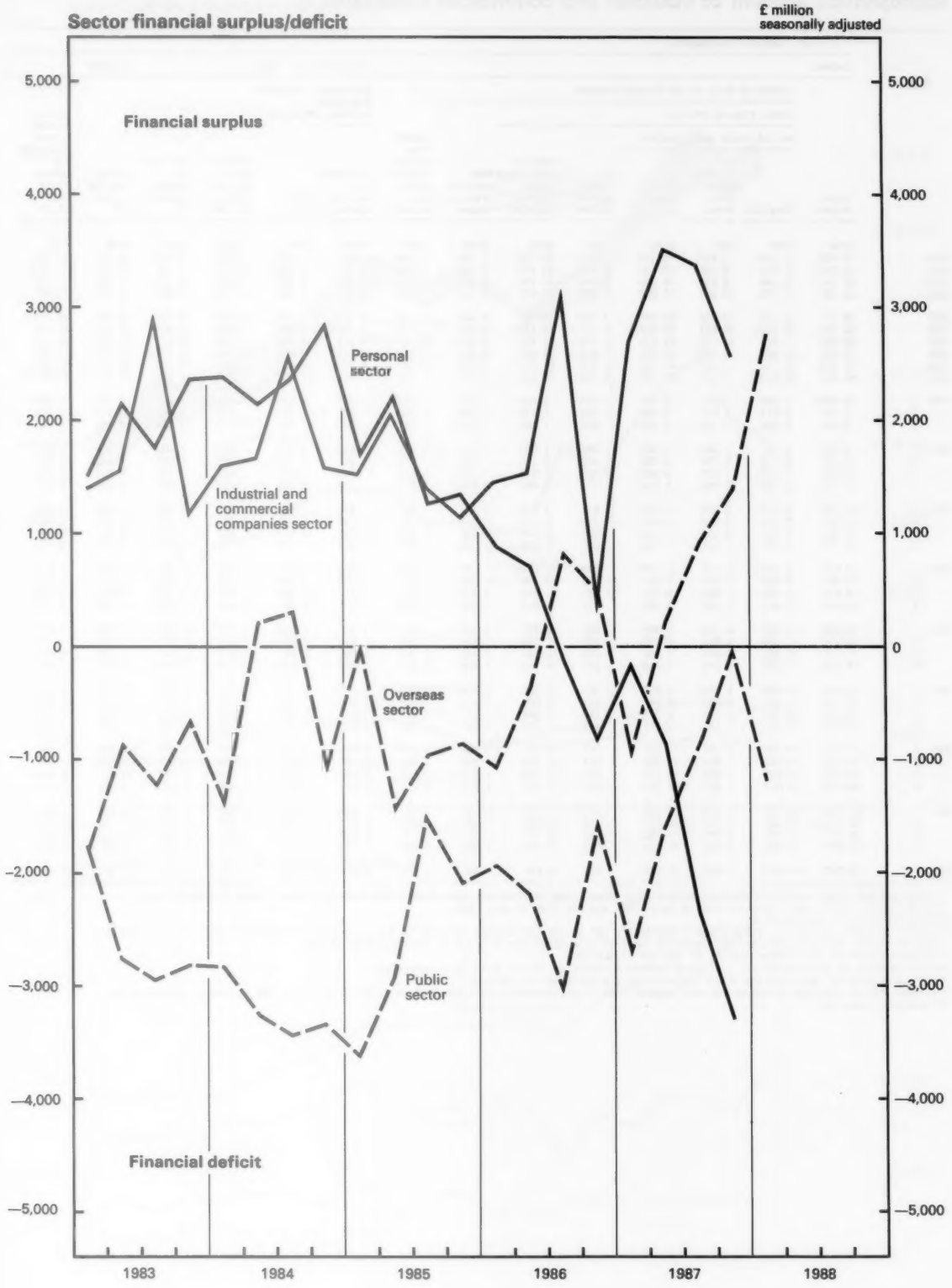
Summary capital accounts and financial surplus or deficit: analysis by sector

£ million, seasonally adjusted

		Public sector(1)			Financial companies and institutions			Industrial and commercial companies		
		Saving(2)	Capital transfers (net receipts)	Gross domestic capital formation(3)	Saving(2)	Capital transfers (net receipts)	Gross domestic capital formation(3)	Savings(2)	Capital transfers (net receipts)	Gross domestic capital formation(3)
		ABKJ	ABKK	ABKL	AAUM	AAUN	GGCX	AAUQ	AAUR	GGCW
1983		5 380†	-1 366	14 297	7 038†	-61	5 376	25 973	313	19 776†
1984		2 153	-1 520	13 506†	7 833	-60†	7 069†	31 882†	189†	24 654
1985		3 379	-535	13 017	9 462	-92	7 874	33 065	189	27 186
1986		3 873	48	12 697	12 677	-150	7 269	34 389	124	28 132
1987		5 572	670†	11 393	15 538	-184	8 079	45 540	-151	34 374
1983	4	1 125†	-455	3 497	1 754†	-15†	1 388†	6 595†	48†	5 473†
1984	1	1 027	-490	3 357†	1 748	-13	1 531	7 399	57	5 742
	2	331	-397	3 188	2 040	-16	1 755	7 442	46	5 893
	3	408	-316	3 537	1 748	-15	1 836	8 228	49	5 963
	4	387	-317	3 424	2 297	-16	1 947	8 813	37	7 056
1985	1	-85	-227	3 297	2 487	-10	2 464	8 720	63	7 144
	2	502	-142	3 315	1 976	-18	1 527	8 674	-16	6 725
	3	1 944	-92	3 352	2 419	-21	2 007	7 835	23	6 733
	4	1 018	-74	3 053	2 580	-43	1 876	7 836	119	6 584
1986	1	1 525	-20	3 334	3 011	-32	1 924	7 669	3	6 248
	2	1 007	-22	3 174	3 084	-33	1 753	7 636	62	6 324
	3	-68	-45	3 047	3 055	-42	1 756	10 077	51	7 070
	4	1 409	135	3 142	3 527	-43	1 836	9 007	8	8 492
1987	1	430	94	3 145	3 816	-43	1 786	10 497	4	7 460
	2	909	47†	2 445	3 848	-44	1 956	11 730	-11	8 481
	3	1 988	81	2 956	4 144	-43	1 970	12 446	-35	9 633
	4	2 245	448	2 847	3 730	-54	2 367	10 867	-109	8 800
1988	1	2 917	473	3 389	3 669	-72	2 299	10 181	-167	8 432

		Personal sector			Financial Surplus Deficit(4)					
		Saving(2)	Capital transfers (net receipts)	Gross domestic capital formation(3)	Public sector	Financial companies and institutions	Industrial and commercial companies	Personal sector	Overseas sector(5)	Balancing item(6)
		AAUU	AAUV	GGCV	AAVE	AAVF	AAVG	AAVH	AAVI	AAVJ
1983		21 717†	1 114	14 932†	-10 283†	1 601†	6 510	7 899†	-3 743†	-1 984†
1984		23 500	1 391	15 174	-12 873	704	7 417†	9 717	-1 989	-2 976
1985		22 296	438	16 029	-10 173	1 496	6 068	6 705	-3 273	-823
1986		18 221	-22	18 152	-8 776	5 258	6 381	17	-116	-2 764
1987		14 824	-335†	21 713	-5 151	7 275	11 015	-7 224	1 560	-7 475
1983	4	5 848†	422	3 897†	-2 827†	353†	1 170†	2 373†	-663†	-406†
1984	1	5 955	446	4 017	-2 820	204	1 714	2 384	-1 408	-74
	2	5 389	367	3 605	-3 254	269	1 595	2 131	211	-952
	3	5 910	282	3 816	-3 445	-103	2 314	2 376	307	-1 449
	4	6 266	296	3 736	-3 354	334	1 794	2 826	-1 099	-501
1985	1	5 471	174	3 929	-3 609	13	1 639	1 716	9	232
	2	6 150	176	4 061	-2 955	431	1 933	2 265	-1 450	-224
	3	5 150	90	3 873	-1 500	381	1 125	1 367	-966	-417
	4	5 525	-2	4 186	-2 109	661	1 371	1 357	-866	-414
1986	1	4 998	49	4 153	-1 829	1 055	1 426	894	-1 076	-470
	2	4 819	-7	4 269	-2 189	1 298	1 374	543	-369	-657
	3	4 320	36	4 687	-3 160	1 257	3 056	-311	836	-1 680
	4	4 084	-100	5 093	-1 598	1 648	523	-1 109	493	43
1987	1	4 513	-55	5 028	-2 621	1 987	3 041	-570	-975	-882
	2	4 188	8†	5 203	-1 489	1 848	3 238	-1 007	218	-2 808
	3	3 040	-3	5 567	-887	2 131	2 778	-2 530	919	-2 411
	4	3 083	-285	5 915	-154	1 309	1 958	-3 117	1 398	-1 394
1988	1	3 864	-234	6 682	21	1 298	1 582	-3 052	2 776	-2 625

1 Excluding financial transactions in writing-off debt.
2 Before providing for depreciation stock appreciation and addition to reserves.
3 Comprises gross domestic fixed capital formation and increase in value of stocks and work in progress.
4 This balance is equal to saving plus capital transfers less gross domestic fixed capital formation, less increase in value of stocks and work in progress.
5 Equals, apart from the change in sign, the current balance of payments accounts, plus capital transfers.
6 For periods when the sector current and capital accounts are fully articulated it is equal to the residual error in the national accounts.


Sector financial surplus/deficit
£ million
seasonally adjusted
5,000
4,000
3,000
2,000
1,000
0
—1,000
—2,000
—3,000
—4,000
—5,000
Financial surplus
Financial deficit
Personal sector
Industrial and commercial companies sector
Overseas sector
Public sector
1983
1984
1985
1986
1987
1988

Appropriation account of industrial and commercial companies(1)

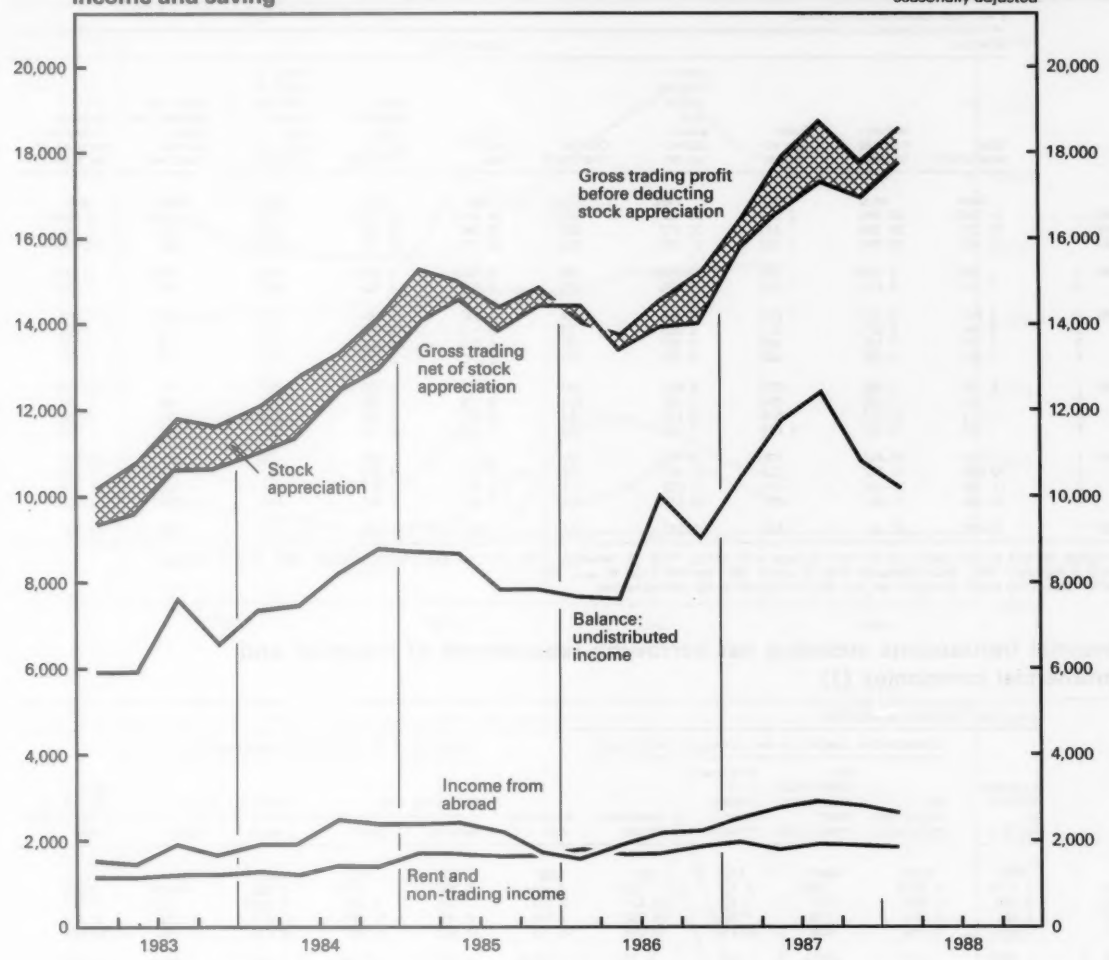
£ million, seasonally adjusted

		Income								Allocation of income				Balance	
			Income arising in the United Kingdom							Dividends, interest and other transfer payments					
			Gross trading profits												
			Net of stock appreciation												
		Total income	Total(2)	N. Sea oil companies	Other companies	Stock appreciation	Before deducting stock appreciation	Rent and non-trading income	Income from abroad (net of taxes paid abroad)	Dividends on ordinary shares(3)	Other (3,4)	Profits due abroad (net of UK tax)	UK taxes on income: payments (5)	Undistributed income (6)	Undistributed income adjusted for unremitted profits (6,7)
		AIAN	AIAO	CIDT	CIDU	AIAP	AIAQ	AIAR	AIAS	AIAU	AIAV	AIAW	AIAY	AAUQ	AIAZ
1978		29 692	21 132	2 614	18 518	3 443	24 575	2 133	2 984	1 941	4 227	1 980	3 246	18 298	18 260
1979		39 984†	23 971	5 255	18 716	7 408	31 379	2 923	5 682†	3 471	6 281†	3 711	4 245	22 276	23 225†
1980		40 082	26 080	8 056	18 034	5 364	31 454	3 587	5 041	3 247	8 826	4 424	5 705	17 880	18 639
1981		43 257	28 470	10 864	17 606	5 005	33 475	4 197	5 585	3 357	8 862	4 182	7 654	19 202	18 922
1982		46 817	33 512	12 726	20 786	3 460	36 972	4 430	5 415	4 034	9 779	3 973	9 223	19 808	19 269
1983		55 793	40 242†	15 683	24 559†	4 131	44 373†	4 807	6 613	4 785	9 580	4 631	10 824	25 973	25 026
1984		66 598	47 822	19 008	28 814	4 554	52 376	5 428†	8 794	5 377	10 992	5 536	12 811	31 882	29 281
1985		75 331	57 002	18 366†	38 636	2 582	59 584	6 831	8 916	6 917†	13 880	6 395†	15 094†	33 065	32 058
1986		72 750	55 715	8 422	47 293	1 817	57 532	7 170	8 048	8 744	12 483	4 659	12 475	34 389	32 065
1987		89 948	66 673	9 511	57 162	4 245†	70 918	7 770	11 260	12 394	13 000	5 517	13 497	45 540	41 781
1980	2	10 398†	7 065	1 981	5 084	1 140	8 205	873	1 320†	693	2 206†	1 275†	1 081	5 143	5 292†
	3	9 140	6 011	2 015	3 996	1 165	7 176	899	1 065	865	2 183	910	1 465	3 717	3 858
	4	9 258	6 498	2 164	4 334	655	7 153	921	1 184	855	2 300	1 011	1 664	3 428	3 448
1981	1	9 532	6 196	2 393	3 803	1 065	7 281	911	1 340	829	2 048	903	1 683	4 069	3 650
	2	10 268	6 712	2 724	3 988	1 404	8 116	934	1 218	887	2 063	780	1 693	4 845	4 392
	3	11 338	7 423	2 857	4 566	1 393	8 816	1 148	1 374	865	2 229	1 069	1 925	5 250	5 063
	4	12 119	8 139	2 890	5 249	1 123	9 262	1 204	1 653	776	2 502	1 450	2 353	5 038	5 817
1982	1	10 272	6 915	2 626	4 289	910	7 825	1 167	1 280	1 231	2 421	1 008	2 203	3 409	2 933
	2	11 871	8 735	3 052	5 683	710	9 445	1 143	1 283	944	2 549	927	2 438	5 013	4 836
	3	11 901	8 621	3 509	5 112	925	9 546	1 055	1 300	925	2 407	930	2 375	5 264	5 097
	4	12 773	9 241	3 539	5 702	915	10 156	1 065	1 552	934	2 402	1 108	2 207	6 122	6 403
1983	1	12 916	9 361†	3 612	5 749†	848	10 209†	1 187	1 520	992	2 500	926	2 590	5 908†	5 613
	2	13 344	9 583	3 691	5 892	1 123	10 706	1 166	1 472	1 163	2 369	1 292	2 643	5 877	5 864
	3	14 972	10 633	4 200	6 433	1 183	11 816	1 219	1 937	1 214	2 360	1 067	2 738	7 593	7 359
	4	14 561	10 665	4 180	6 485	977	11 642	1 235	1 684	1 416	2 351	1 346	2 853	6 595	6 190
1984	1	15 336	11 085	4 189	6 896	1 002	12 087	1 305†	1 944	1 187	2 379	1 372	2 999	7 399	7 237
	2	15 919	11 389	4 651	6 738	1 350	12 739	1 248	1 932	1 418	2 593	1 471	2 995	7 442	7 171
	3	17 317	12 382	4 920	7 462	975	13 357	1 448	2 514	1 283	3 041	1 518	3 247	8 228	7 588
	4	18 026	12 966	5 248	7 718	1 227	14 193	1 429	2 404	1 489	2 879	1 175	3 570	8 813	7 285
1985	1	19 436	14 039	5 132†	8 907	1 261	15 300	1 734	2 402	1 427†	3 703	1 757	3 829	8 720	8 595
	2	19 192	14 584	4 938	9 646	421	15 005	1 729	2 458	1 654	3 543	1 710	3 611†	8 674	8 291
	3	18 348	13 888	4 116	9 772	498	14 386	1 671	2 291	1 946	3 283	1 420	3 864	7 835	7 465
	4	18 355	14 491	4 180	10 311	402	14 893	1 697	1 765	1 890	3 331	1 508	3 790	7 836	7 707
1986	1	17 475	14 430	3 139	11 291	-373	14 057	1 808	1 612	1 961	3 224	1 037	3 584	7 669	7 395
	2	17 386	13 362	1 659	11 703	354	13 716	1 708	1 962	2 256	2 936	1 164	3 394	7 636	7 343
	3	18 470	13 910	1 633	12 277	612	14 522	1 729	2 219	2 086	2 998	1 122	2 187	10 077	9 609
	4	19 419	14 013	1 991	12 022	1 224	15 237	1 927	2 255	2 441	3 325	1 336	3 310	9 007	7 718
1987	1	21 066	15 787	2 432	13 355	705†	16 492	2 005	2 569	3 055	3 109	1 432	2 989	10 497	9 548
	2	22 527	16 609	2 312	14 297	1 273	17 882	1 822	2 823	2 632	3 226	1 282	3 657	11 730	10 722
	3	23 701	17 327	2 542	14 785	1 414	18 741	1 981	2 979	2 908	3 408	1 406	3 533	12 446	11 384
	4	22 654	16 950	2 225	14 725	853	17 803	1 962	2 889	3 795	3 257	1 397	3 338	10 867	10 127
1988	1	23 223	17 787	1 915	15 872	804	18 591	1 938	2 694	4 574	3 096	1 266	4 106	10 181	10 545

1 Figures reflect privatisation of British Telecom with effect from 28 November 1984, British Gas from 3 December 1986, British Airways from 6 February 1987, Royal Ordnance from 22 April 1987 and BAA from 16 July 1987.
2 Before providing for depreciation.
3 Dividend payments on ordinary and preference shares are net of tax;the advance corporation tax in respect of those dividends is included in UK taxes on income. Excludes dividend and debenture interest paid by UK subsidiaries to their overseas parents.
4 Including royalties and licence fees on oil and gas production.
5 Mainly payments of corporation tax (including advance corporation tax)and petroleum revenue tax.
6 Before providing for depreciation, stock appreciation and additions to reserves.
7 Excludes profits retained abroad by overseas subsidiaries of UK companies. Includes profits retained in the United Kingdom by subsidiaries of overseas companies.

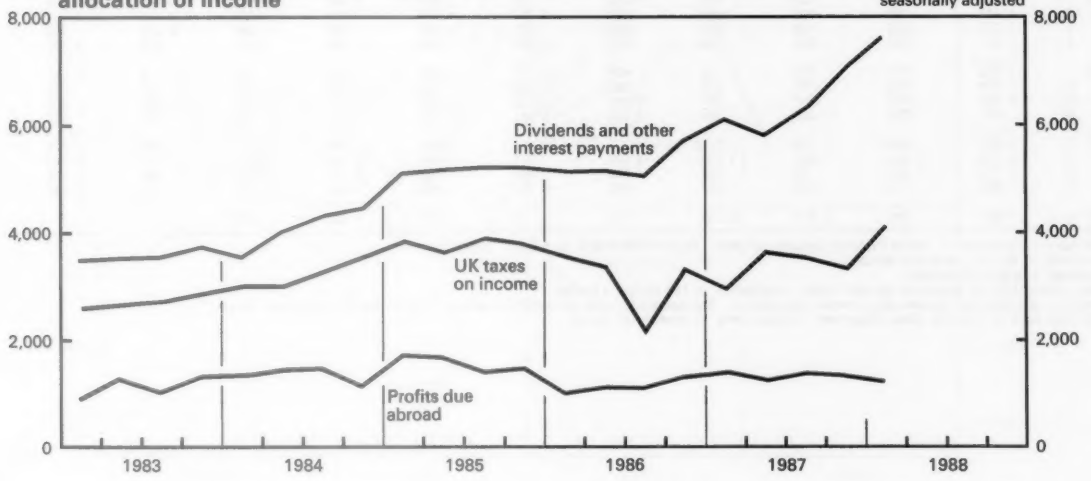
Industrial and commercial companies income and saving

£ million seasonally adjusted



Industrial and commercial companies allocation of income

£ million seasonally adjusted



Capital account and financial surplus/deficit of industrial and commercial companies(1)

£ million, seasonally adjusted

		Receipts					Expenditure				
		Total receipts(2)	Undistributed income	Stock appreciation	Undistributed income less stock appreciation	Capital transfers	Total expenditure	Gross domestic fixed capital formation	Value of physical increase in stocks and work in progress	Taxes on capital and other capital transfers	Balance: Financial surplus or deficit
		FMBA	AAUQ	AIAP	FMBC	CIDZ	FMBF	AAUS	FMBG	FMBH	AAVG
1985		31 042†	33 065	2 582†	30 483†	558†	24 974†	24 550†	54	370†	6 068†
1986		33 270	34 389	1 817	32 572	698	26 889	25 997	318	574	6 381
1987		41 807	45 540	4 245	41 295	512	30 792	28 757	1 372†	663	11 015
1984	3	7 398†	8 228†	975	7 253†	145	5 084†	4 855†	133	96†	2 314†
	4	7 713	8 813	1 227	7 586	127	5 919	5 329	500	90	1 794
1985	1	7 637	8 720	1 261	7 459	178	5 998	6 160	-277	115	1 639
	2	8 348	8 674	421	8 253	93	6 413	5 958	346	109	1 933
	3	7 478	7 835	498	7 337	141	6 353	6 203	32	118	1 125
	4	7 581	7 836	402	7 434	147	6 210	6 229	-47	28	1 371
1986	1	8 189	7 669	-373	8 042	147	6 763	6 352	267	144	1 426
	2	7 493	7 636	354	7 282	211	6 119	6 202	-232	149	1 374
	3	9 649	10 077	612	9 465	184	6 591	6 730	-272	133	3 058
	4	7 939	9 007	1 224	7 783	156	7 416	6 713	555	148	523
1987	1	9 554	10 497	705†	9 792	182	6 913	6 683	72†	158	3 041
	2	10 585	11 730	1 273	10 457	128	7 347	7 270	-62	139	3 238
	3	11 149	12 446	1 414	11 032	117	8 371	7 313	906	152	2 778
	4	10 119	10 867	853	10 014	105†	8 161	7 491	456	214	1 958
1988	1	9 478	10 181	804	9 377	101	7 896	7 549	79	268	1 582

1 Figures reflect privatisation of British Telecom with effect from 28 November 1984, British Gas from 3 December 1986, British Airways from 6 February 1987, Royal Ordnance from 22 April 1987 and BAA from 16 July 1987.
2 After deducting stock appreciation but before providing for depreciation.

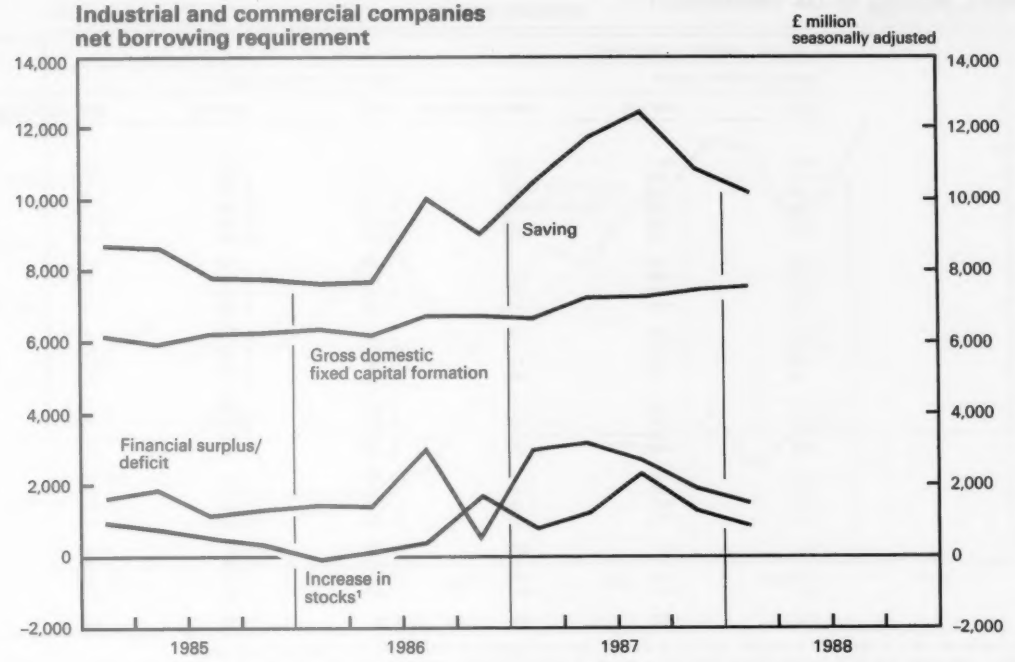
Financial transactions including net borrowing requirement of industrial and commercial companies (1)

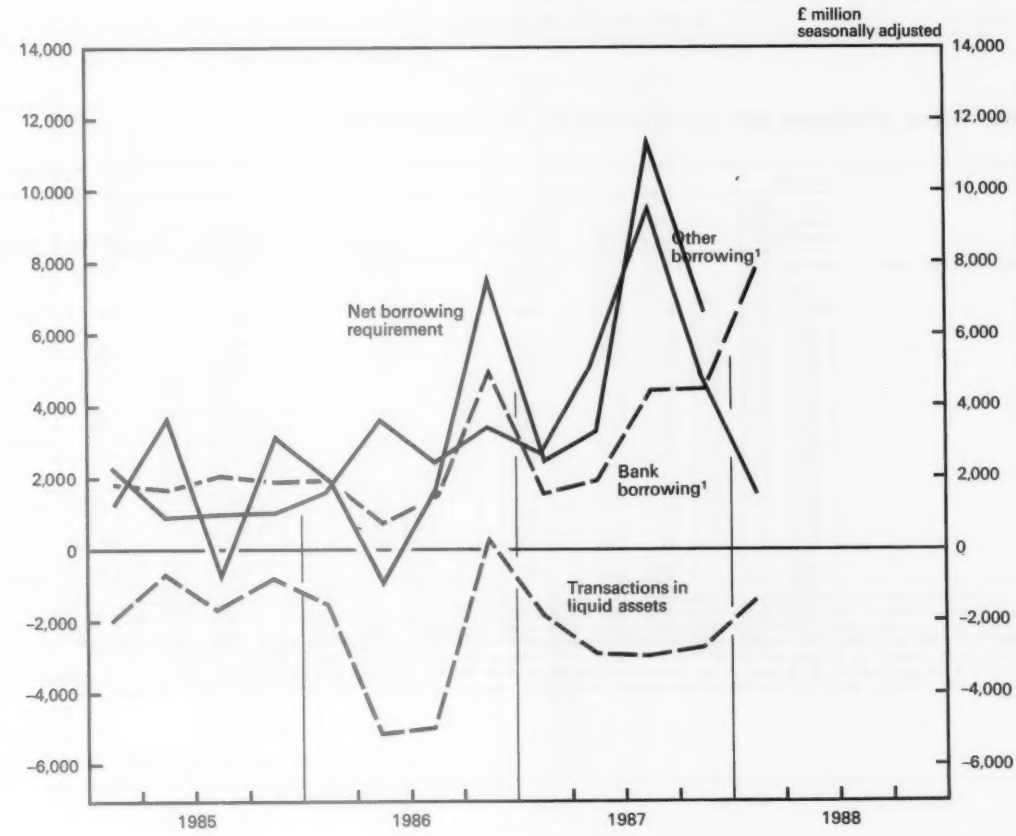
£ million, seasonally adjusted

			Transactions leading to net borrowing requirement					Financing of net borrowing requirement(5)				
		Financial surplus or deficit	Net unremitted profits(2)	Net identified trade and other credit(3,5)	Investment in UK company securities(4)	Investment abroad	Balancing item	Borrowing from		Financial assets		Net borrowing requirement (NBR)
								Banks(6)	Other	Liquid	Other	
		AAVG	AICX	ABKP	AICC	AIDC	AIDD	AIDF	AIDJ	AIDG	AICV	AIDI
1984		7 417†	-2 801†	37†	3 100	-1 358†	2 491†	7 191†	-931†	-2 205	-1 959†	2 098†
1985		6 068	-1 007	-421	1 358	-4 431	6 244	7 578	5 455	-4 824†	-726	7 393
1986		6 381	-2 324	-419	1 883	-5 693	6 506	9 167	11 091	-11 117	1 303	10 444
1987		11 015	-3 759	-409	4 171†	-9 896	16 435	12 462	22 507	-9 940	-1 680	23 855
1984	2	1 595†	-271	-289†	660	23†	1 237†	1 101	-3 116†	1 405	-1 025†	-1 635†
	3	2 314	-640	91	390	-272	-2 452	1 595	979	-914	-311	1 349
	4	1 794	-1 528	-540	1 017	-324	-590	3 606	625	-1 363	-663	2 205
1985	1	1 639	-125	784	474	-1 899	-1 131	1 871	2 345	-1 985†	-1 025	1 206
	2	1 933	-383	-903	584	-932	-2 953	1 719	996	-862	1 749	3 802
	3	1 125	-370	428	229	-713	522	2 064	1 035	-1 592	-2 270	-763
	4	1 371	-129	-744	91	-887	-2 682	1 924	1 089	-671	820	3 162
1986	1	1 426	-274	1 608	104	486	-5 177	1 949	1 558	-1 456	4	2 055
	2	1 374	-293	-767	518	-365	1 385	706	3 628	-5 105	-57	-826
	3	3 058	-468	-841	467	-2 752	-133	1 481	2 445	-4 906	2 583	1 603
	4	523	-1 289	-405	794	-3 042	-2 591	5 029†	3 480	336	-1 227	7 598
1987	1	3 041	-949†	1 178	611†	-1 371	-3 722	1 654	2 740	-1 177	-783	2 434
	2	3 238	-1 008	-631	1 500	-3 676	331	1 994	5 244	-2 801	-1 191	3 246
	3	2 778	-1 062	18	688	-4 596	-7 864	4 380	9 573	-2 914	395	11 414
	4	1 958	-740	-846	1 372	-253	-5 180	4 454	4 950	-2 770	-101	6 533
1988	1	1 582	384	1 312	3 730	-179		7 917	1 682	-1 371		

1 Inflows(+), outflows(-); Relationships between columns: 1+2+3+4+5+6+7+8+9+10 = zero; 7+8+9+10 = 11
2 Retained in UK (+), retained abroad (-).
3 Includes accruals adjustment.
4 Cash expenditure on subsidiaries and trade investments in the United Kingdom.
5 Seasonal adjustments include day-of-week adjustments. The quarterly figures therefore do not always sum to the annual totals.
6 Includes Bank of England Issue Department transactions in commercial bills.

Industrial and commercial companies net borrowing requirement





UK banks' lending to UK residents(1)

£ million, seasonally adjusted(2)

		Lending to public sector			Lending to private sector		
		Total	Sterling	Other currencies	Total	Sterling	Other currencies
Transactions		FPAA	AEBT	AECC	FPAD	AECI	AECO
1983		-1 911	-2 026	115	14 321	12 903	1 418
1984		920	629	291	21 446	16 541	4 905
1985		-1 688	-2 092	404	25 708	20 968	4 740
1986		-924	-954	30	38 693	30 445	8 248
1987		-223	124	-347	48 908	38 361	10 547
1983	1	1 403	1 427	-	1 495	1 710	-215
	2	-2 006	-1 989	-20	4 090	3 545	545
	3	-914	-840	-50	5 311	4 115	1 196
	4	-394	-644	185	3 425	3 533	-108
1984	1	1 937	2 084	-36	5 375	4 273	1 102
	2	-2 090	-2 363	43	3 936	3 128	808
	3	1 033	1 029	115	5 061	4 014	1 047
	4	40	-121	169	7 074	5 126	1 948
1985	1	-2 717	-2 784	88	9 478	6 254	3 225
	2	-1 346	-1 380	35	6 245	4 863	1 382
	3	1 567	1 566	22	3 718	4 524	-806
	4	808	486	258	6 266	5 327	939
1986	1	733	754	1	8 852	6 490	2 362
	2	-435	-345	-69	7 990	6 415	1 575
	3	-474	-647	195	10 547	6 859	3 688
	4	-748	-716	-97	11 304	10 681	623
1987	1	1 011	811	220	13 779	6 637	7 142
	2	-1 638	-1 647	28	13 499	8 765	4 734
	3	-214	-114	-80	10 246	11 398	-1 152
	4	618	1 074	-515	11 384	11 561	-177
1988	1	-153	628	-781	14 587	12 729	1 858

1 Seasonally adjusted data is shown on a calendar year basis whereas data for pages 5,52 and 54 are on a financial year basis.
2 The seasonally adjusted quarterly figures do not necessarily add up to the (unadjusted) figures shown for the year as a whole. This is because, as well as allowing for purely seasonal factors, the adjustments attempt to remove other distortions (such as the effect of the particular days of the week on which a quarter begins and ends), which do not necessarily cancel out over a year.

UK banks' loans, advances and acceptances to UK residents (1)

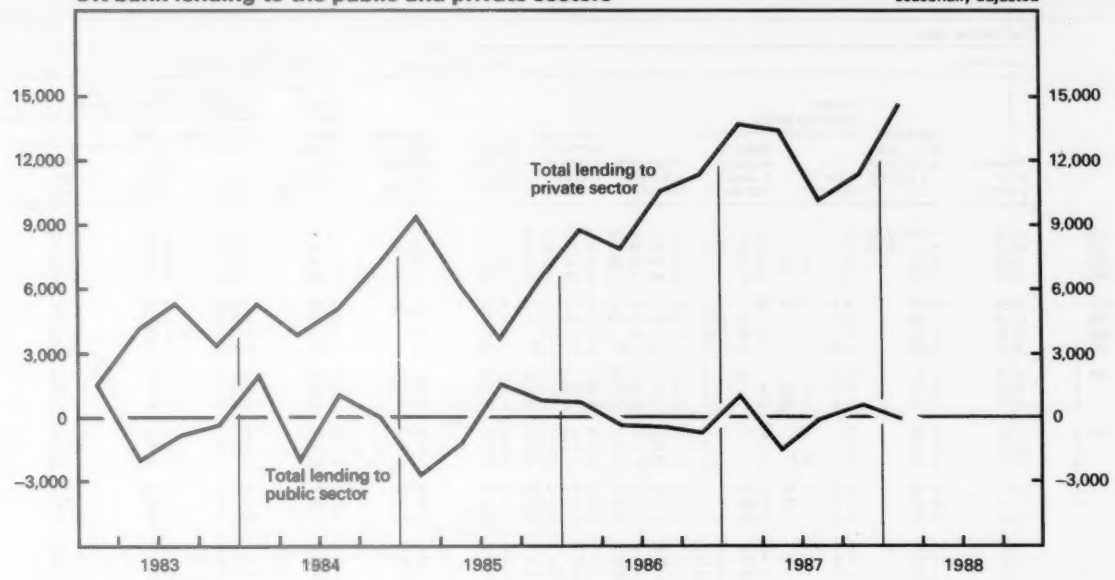
£ million

	Total loans, advances and acceptances	Manufacturing	Other production	Financial	Services	Persons
Amounts outstanding (May 1988):	288 823	33 856	19 035	72 705	72 811	70 416
Changes	FRAA	FRAB	FRAC	FRAD	FRAE	FRAF
1985						
May-Aug	3 382	621	-17	-641	1 057	2 358
Aug-Nov	5 089	601	-347	-458	2 936	2 357
Nov-Feb	5 013	36	585	941	2 191	1 260
1986						
Feb-May	9 582	518	-213	3 883	3 509	1 882
May-Aug	7 796	358	487	1 849	2 320	2 784
Aug-Nov	11 264	1 193	-570	2 715 (2)	-6 554 (2)	1 759
Nov-Feb	12 599	965	972	6 512	2 135	2 017
1987						
Feb-May	14 797	-1 038	1 673	7 260	3 386	3 517
May-Aug	9 764	578	-436	2 999	2 091	4 532
Aug-Nov	12 931	858	-228	3 519	4 265	4 518
Nov-Feb	9 218	1 493	714	-1 331	5 213	3 121
1988						
Feb-May	15 003	2 764	891	2 085	4 825	4 439

1 For a more detailed breakdown of these figures see Financial Statistics Table 6.6. The analysis covers loans, advances and acceptances in both sterling and foreign currencies provided by banks to their customers and therefore does not include funds placed through the local authority money market or funds lent to monetary sector institutions. Acceptances are not granted to persons.
2 From November 1986 lending to securities dealers, stockbrockers and stockjobbers (including money placed with Stock Exchange money brokers and gilt-edged market makers) is included within the financial sector. Such lending was previously included in the services sector. Whilst the effect of this reclassification can be seen in the change shown for the services sector in the period August-November 1986, it is not possible to reflect it in the financial sector for the same period because the amount of outstanding lending to securities dealers etc. at August 1986 is not known.

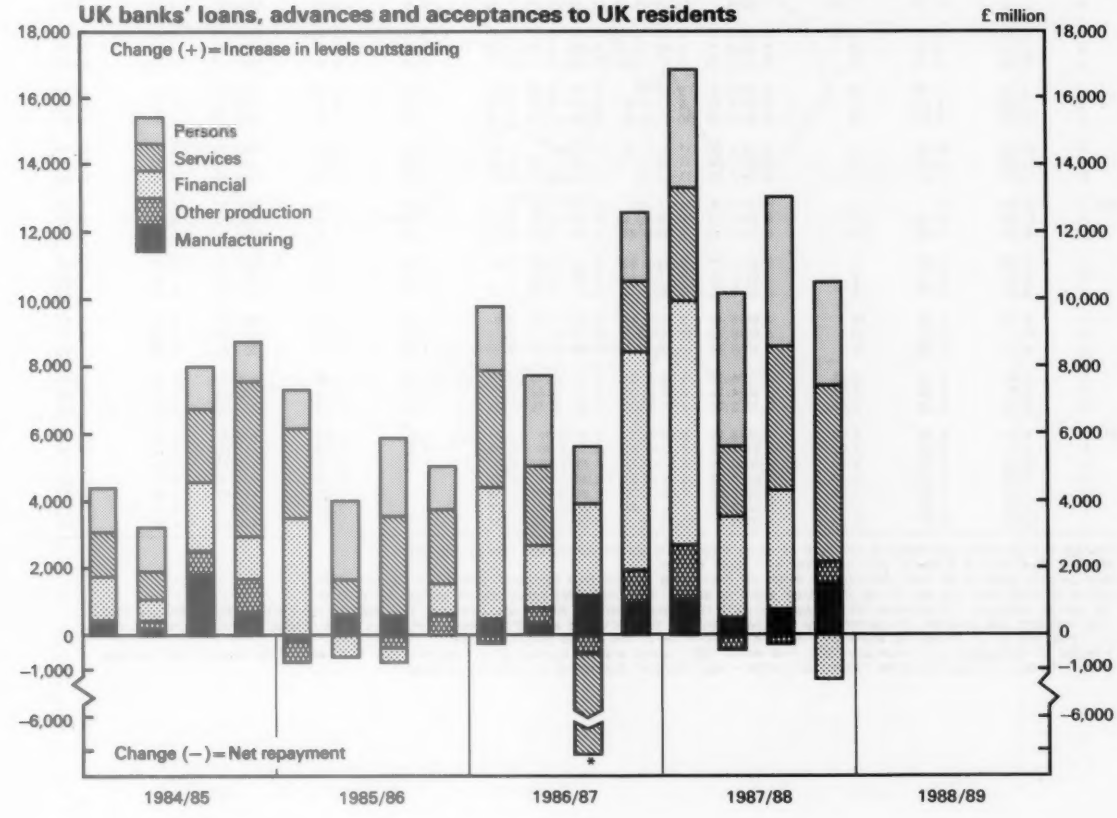
UK bank lending to the public and private sectors

seasonally adjusted



UK banks' loans, advances and acceptances to UK residents

£ million



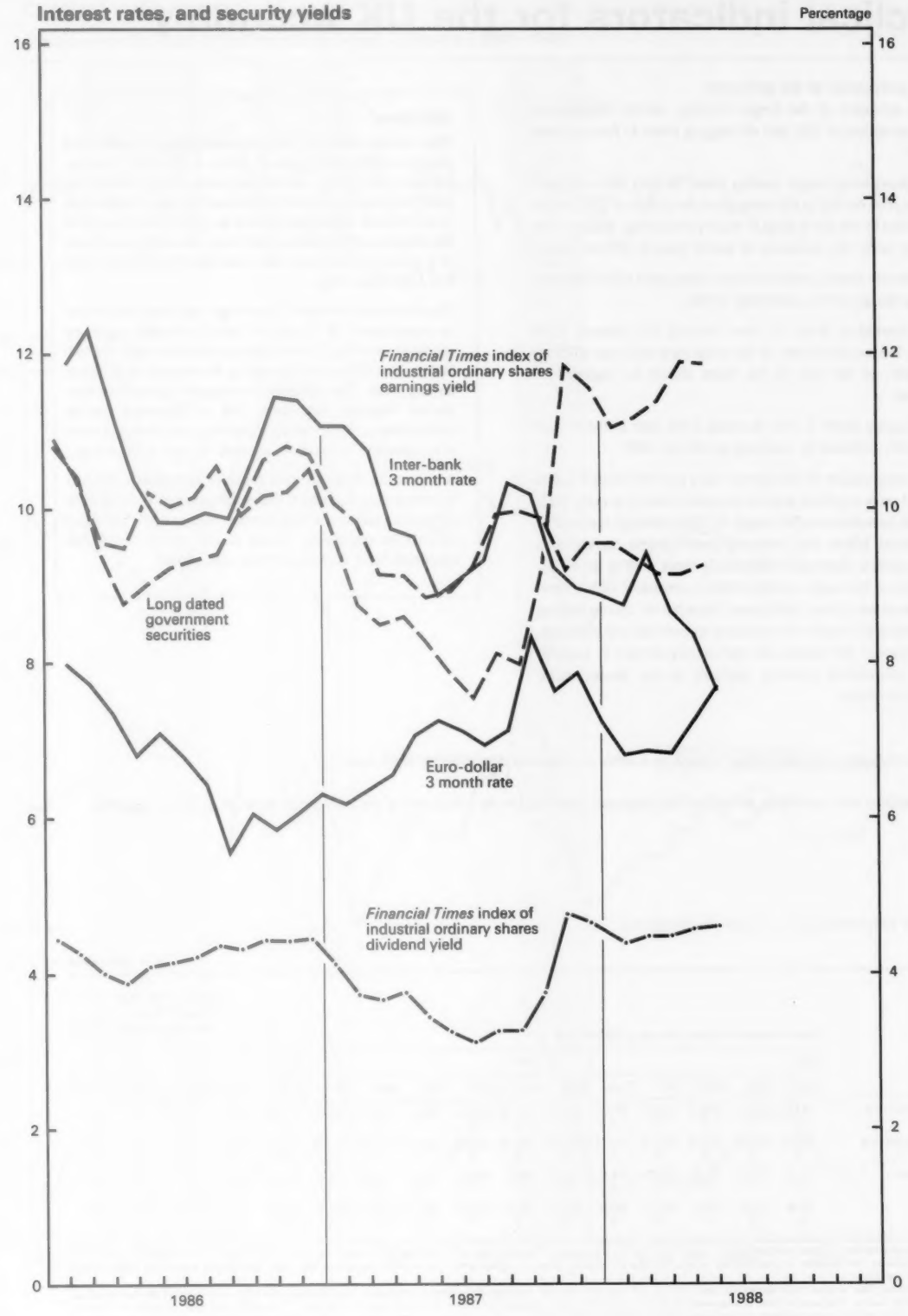
* See footnote [3] page 64 lower table

Interest rates, security prices and yields

Percentage rate

	Last Friday				Last working day		Average of working days			
			London clearing banks					Financial Times index of industrial ordinary shares		
								1 July 1935 = 100		
	Treasury bill yield(1)	Deposits with local authorities - 3 months (2)	Base rate	Deposit account: 7 days' notice(3)	Inter-bank - 3 month rate(4)	Sterling certificates of deposit - 3 months	Euro-dollar 3-month rate	Building Society shares: basic rate(5)	British government securities: long dated(6) - 20 years	Price index	Dividend yield	Earnings yield
1980	13.58	14.63-14.88	14	11.5 -12	14.75-14.88	14.75-14.88	17.75	10.5	13.79	464.5	7.62	18.14
1981	15.39	15.5 -15.69	14.5	12.25-12.5	15.56-15.75	15.63-15.75	13.75	9.75	14.74	518.5	6.23	12.12
1982	9.96	10.63	10 -10.25	6.75- 7	10.44-10.63	10.19-10.31	9.25	6.25	12.88	574.7	5.29	10.82
1983	9.04	9.31	9	5.5	9.34- 9.41	9.25- 9.31	9.88	7.25	10.80	692.6	4.70	9.58
1984	9.33	10.13	9.5 - 9.75	6 - 6.5	10 -10.13	9.75- 9.88	8.62	6.75	10.69	854.9	4.66	10.76
1985	11.48	11.94	11.5	7.69-8.03	11.81-11.94	11.69-11.81	7.97	7	10.62	1004.6	4.61	11.48
1986	10.94	11.31	11	6.69-7.00	11-11.13	11-11.13	6.38	6	9.87	1287.1	4.25	10.16
1987	8.38	8.88	8.50	3.32-3.75	8.75-9.00	8.81-8.88	7.25	..	9.47	1600.01	3.73	8.98
1984 O	10.13	10.5	10.5	7.25- 7.5	10.5 -10.56	10.25-10.38	10.00	7.75	10.69	865.2	4.69	11.66
N	9.26	9.75	9.5 - 9.75	6 - 6.5	9.75- 9.81	9.56- 9.69	9.19	7.24	10.32	913.2	4.67	11.23
D	9.33	10.13	9.5 - 9.75	6 - 6.5	10 -10.13	9.75- 9.88	8.62	6.75	10.46	929.6	4.62	11.73
1985 J	11.86	12.25	12	8.5 - 9	12.25-12.38	12.06-12.19	8.56	6.75	10.96	977.1	4.42	11.15
F	13.91	14.13	14	11 -11.5	14.06-14.19	13.81-13.84	9.5	7.50	11.07	979.3	4.41	11.01
M	12.75	13.13	13 -13.5	10 -10.5	13.06-13.25	13 -13.13	9.06	7.50	10.90	987.1	4.55	11.32
A	12.27	12.63	12.5 -12.75	9.38- 9.7	12.63-12.81	12.44-12.56	8.69	8.25	10.88	969.0	4.70	11.79
M	12.18	12.50	12.5 -12.75	9.38- 9.7	12.5 -12.56	12.31-12.44	7.75	8.25	10.86	1003.8	4.58	11.52
J	12.56	12.56	12.5	9.03- 9.5	12.56-12.69	12.44-12.56	7.75	8.25	10.70	980.4	4.72	11.83
J	11.63	11.88	12	8.38- 8.75	11.56-11.94	11.69-11.81	8.19	8.25	10.44	935.2	4.96	12.38
A	11.31	11.50	11.5	7.69- 8.03	11.5 -11.69	11.31-11.44	8.06	8.25	10.37	973.6	4.82	11.88
S	11.32	11.38	11.5	7.69- 8.03	11.5- 11.56	11.31-11.44	8.12	7.01	10.39	1002.8	4.73	11.61
O	11.45	11.50	11.5	7.69-8.03	11.56-11.69	11.38-11.50	8.00	7.00	10.22	1034.23	4.64	11.35
N	11.33	11.50	11.5	7.69-8.03	11.56-11.63	11.38-11.50	8.19	7.00	10.27	1099.30	4.40	10.87
D	11.48	11.94	11.5	7.69-8.03	11.81-11.94	11.69-11.81	7.97	7.00	10.45	1113.88	4.45	11.04
1986 J	12.47	12.75	12.50	8.70-9.03	11.81-11.94	12.69-12.81	8.00	7.00	10.80	1127.58	4.43	10.89
F	12.21	12.25	12.50	8.70-9.03	12.25-12.38	12.13-12.38	7.75	7.00	10.40	1220.80	4.27	10.32
M	11.04	11.25	11.50	7.50-8	11.13-11.31	11.19-11.31	7.34	7.00	9.39	1348.97	4.00	9.55
A	10.09	10.38	10.50	6.30-6.75	10.25-10.38	10.19-10.31	6.81	6.01	8.76	1391.12	3.87	9.49
M	9.56	9.75	10	6.30-6.75	9.69- 9.94	9.63- 9.75	7.09	6.00	9.00	1331.60	4.10	10.20
J	9.52	9.75	10	6.30-6.75	9.75- 9.88	9.66- 9.72	6.81	5.25	9.23	1332.13	4.14	10.03
J	9.76	9.88	10	5.86-6.25	9.88-10	9.75- 9.88	6.44	5.25	9.33	1309.62	4.21	10.14
A	9.56	9.81	10	5.62-6.25	9.81-9.94	9.63- 9.75	5.62	5.25	9.41	1262.13	4.37	10.56
S	9.93	9.56	10	5.62-6.25	10.5-10.69	10.44-10.56	6.06	5.25	9.97	1286.23	4.31	9.91
O	10.85	10.94	11	6.69-7.00	11.6-11.25	11-11.13	5.87	5.25	10.62	1262.33	4.42	10.16
N	10.96	11.38	11	6.69-7.00	11.38-11.44	11.19-11.25	6.06	5.99	10.80	1289.25	4.41	10.21
D	10.94	11.31	11	6.69-7.00	11-11.13	11-11.13	6.31	5.99	10.69	1283.58	4.45	10.50
1987 J	10.85	11	11	6.69-7.00	11-11.13	10.85-11.00	6.19	5.99	10.09	1392.63	4.12	9.66
F	10.46	10.75	11	6.69-7.00	10.69-10.81	10.69-10.75	6.37	5.99	9.83	1529.60	3.72	8.72
M	9.54	9.69	10	5.35-5.75	9.69-9.81	9.63- 9.66	6.56	5 99	9.16	1596.26	3.67	8.48
A	9.38	9.63	10	5.35-5.75	9.63-9.69	9.63- 9.69	7.06	5.99	9.12	1554.78	3.77	8.58
M	8.67	8.75	9	3.99-5.25	8.81-8.94	8.69- 8.81	7	5.03	8.82	1674.07	3.44	8.23
J	8.95	9.06	9	3.99-5.25	9.06-9.13	8.97- 9.03	7.12	5.00	8.90	1759.78	3.25	7.83
J	9.14	9.25	10	4.50-5.48	9.19-9.44	9.03- 9.06	6.94	4.99	9.23	1855.23	3.10	7.52
A	10.11	10.38	10	4.50-5.48	10.13-10.5	10.13-10.19	7.12	4.99	9.92	1757.59	3.28	8.11
S	10.01	10.06	10	4.50-5.48	10.13-10.25	10.00-10-13	8.31	4.99	9.98	1801.84	3.26	7.98
O	9.07	9.19	9.50	4.32-4.75	9.19-9.31	9.06-10.19	7.62	4.99	9.88	1645.30	3.75	9.22
N	8.67	8.88	9.00	3.99-4.25	8.88-9.03	8.78- 8.84	7.88	4.93	9.20	1296.04	4.78	11.83
D	8.38	8.88	8.50	3.32-3.75	8.75-9.00	8.69- 8.75	7.25	4.02	9.57	1337.02	4.67	11.58
1988 J	8.38	8.69	8.50	3.32-3.75	8.69-8.75	8.66-8.72	6.81	4.0	9.57	1419.37	4.39	11.02
F	9.01	9.25	9.00	3.67-4.25	9.19-9.63	9.13-9.25	6.88	4.0	9.38	1397.56	4.48	11.16
M	8.48	8.63	8.50	3.30-3.75	8.56-8.75	8.59-8.66	6.81		9.12	1446.73	4.48	11.37
A	7.98	8.50	8.00	2.61-3.25	8.25-8.50	8.38-8.44	7.25		9.12	1421.19	4.57	11.89
M	7.28	7.63	7.50	2.28-2.63	7.56-7.75	7.50-7.56	7.69		9.27	1427.45	4.59	11.86
J	9.24	8.88	9.00	2.50-3.38	8.94-9.44	9.06-9.13	7.88		9.32	1470.13	4.51	11.56
J	10.53	10.75	10.50	4.00-5.00	10.63-10.94	10.56-10.63	8.31		9.51	1488.92	4.52	11.47

1 Average discount rate expressed as the rate at which interest is earned during the life of the bills.
2 For a minimum term of 3 months and thereafter at 7 days' notice.
3 Rate paid on deposits of less than £10 000, which was restricted to 9.5% from September 1973 to 28 February 1975.
4 Spread of rates over the day in the inter-bank sterling market; from June 1982 rates are the spread at 10.30 am.
5 The series comprises the Building Society Association's recommended rate on shares until October 1983 when it was replaced by an advised rate. From November 1984 onwards, all guidance by the BSA ceased and the series is a weighted average of basic rates offered by the largest societies. All rates are net of income tax where this is paid by societies at the agreed composite rate.
6 Averages of Wednesdays until February 1980; from March 1980 figures are the average of all observations (3 a week); from January 1982 average of working days. Calculated gross redemption yields - see Financial Statistics Explanatory Handbook.


Interest rates, and security yields
Percentage
16
14
12
10
8
6
4
2
0
Financial Times index of industrial ordinary shares earnings yield
Inter-bank 3 month rate
Long dated government securities
Euro-dollar 3 month rate
Financial Times index of industrial ordinary shares dividend yield
1986
1987
1988

Cyclical indicators for the UK economy

Recent movements of the indicators

First estimates of the longer leading, shorter leading and coincident indices to July and the lagging index to June are now available.

The provisional longer leading index for July fell compared with June. The decline in the index since the middle of 1987, which was initiated by the sharp drop in share prices in the Autumn, has continued under the influence of recent rises in interest rates.

The shorter leading index now has a rising path since February, reflecting the growth in consumer credit.

The coincident index is now showing an increase since mid-1987. Recent movements of the component series are difficult to interpret, so the rise in the index should be regarded as provisional.

The lagging index is now showing a flat path in the second half of 1987, followed by renewed growth in 1988.

The interpretation of the indices since the 1981 trough is that they could show a cyclical peak in economic activity in early 1985. There may have been a mild trough in 1986, although the decline in the indices before their renewed growh is less marked than previous cyclical movements, especially those seen in the 1970s. The decline in the longer leading index is consistent with a slow-down in economic growth in the near future but the shorter leading and coincident indices do not at present support this interpretation. Recent values of the indices are particularly subject to revision as more information becomes available so any interpretation remains provisional.

Definitions

This section shows a reference chronology of peaks and troughs representing growth cycles in the UK economy, together with groups of indicator series which have in the past had a consistent timing relationship with the reference cycle. Growth cycles are defined as cyclical movements in the deviations from a long-trend; thus, the contraction phase of a growth cycle occurs when the rate of growth is below this long-term value.

The historical reference chronology has been determined by examination of a range of series covering aggregate economic activity. Known special economic and climatic factors were discounted in judging the location of reference turning points. The indicators forming each group have been chosen because they have had a consistent timing relationship to the reference chronology, and because there is a economic rationale to account for this relationship.

A composite index for each group of indicators is formed by subtracting from each series the value of its long-term trend, then taking a simple average of the trend-eliminated series after smoothing, scaling to give cycles of singular amplitude, and inversion where appropriate.

Information included in the table below is based on monthly and quarterly data available to 24 August.

Precise details on data availability for each of the component series used in the compilation of the indicators is shown in a table on page 80.

Recent movements of the indicators

Jan 1980=100

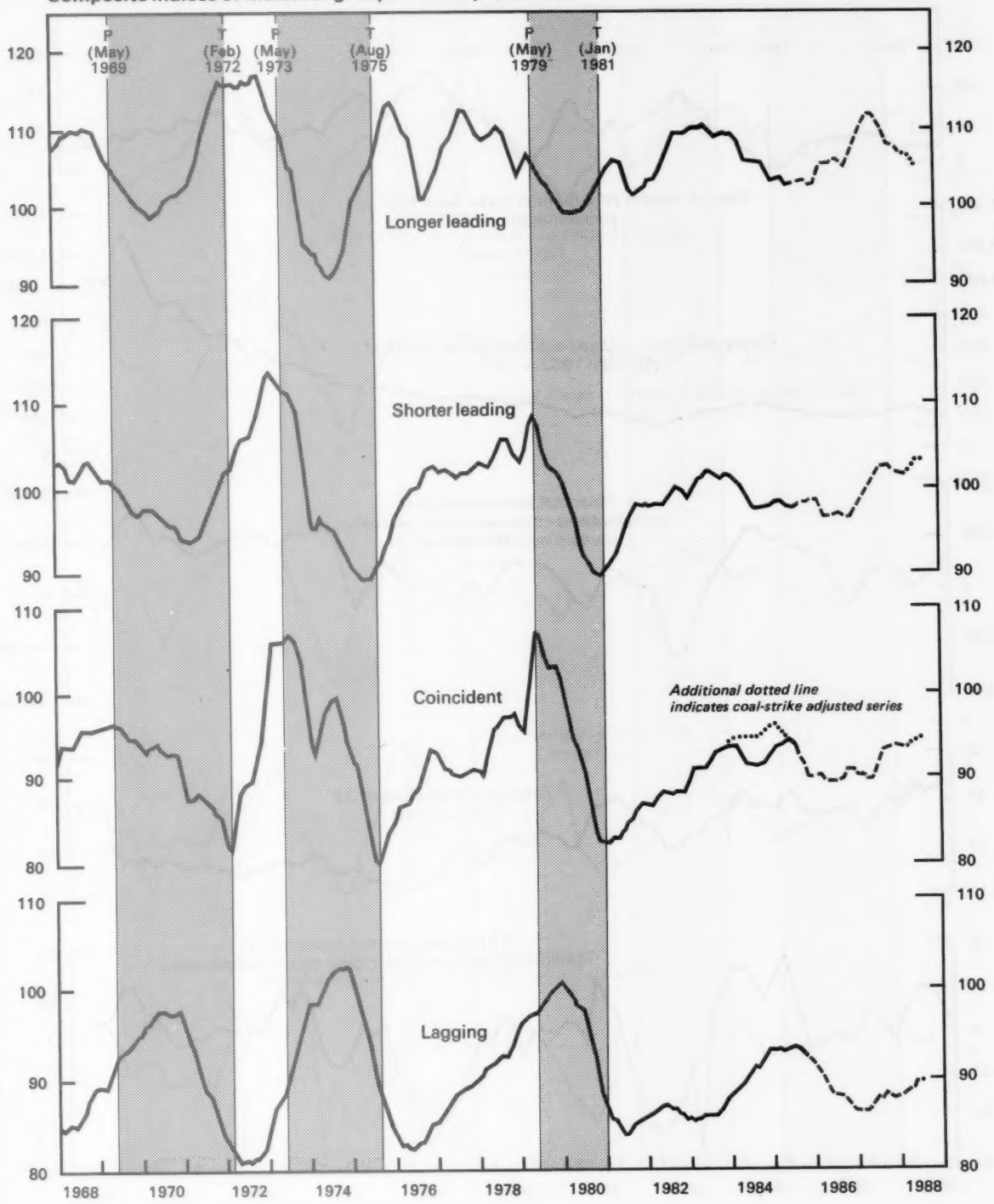
	Most recent values January 1980=100													Lead (-) or lag (+) in months relative to reference cycle dates		
	1987						1988									
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Mean	Earliest	Latest
Longer leading ..	111.1 5	110.4 5	109.7 5	108.7 5	107.3 5	107.1 5	107.0 5	106.4 5	106.1 5	105.8 4	105.7 4	105.2 4	104.5 3	-12	-21	-5
Shorter leading ..	101.5 5	101.9 5	101.9 5	101.9 5	101.4 5	101.1 5	101.1 5	100.8 5	100.9 5	101.5 4	101.9 4	102.7 4	102.7 2	-5	-12	0
Coincident	91.9 7	93.0 7	93.3 7	93.3 7	93.6 7	93.7 7	93.4 7	93.3 7	93.4 7	93.8 5	94.0 5	94.3 5	94.5 3	0	-7	+5
Lagging	87.8 5	88.3 5	88.1 5	87.9 5	88.0 5	88.0 5	88.2 5	88.4 5	88.8 5	89.0 5	89.6 5	89.7 4		+10	+1	+17

1 A full explanation of the methodology used is given in *Economic Trends*, No. 257, March 1975 and No. 271, May 1976. Each month a chart of the composite indicators is published with, in the February May, August and November issues, a further ten pages showing individual indicator series.

2 In the table, the upper row presents the values of the composite indices for recent months, the lower row the number of series used to form each index. Values of the composite indices are published solely in order to show more precisely the shape of the graphs in recent months. The values are subject to revisions each month, both because of revisions to the series from which they are formed and because of the nature of the trend- elimination process used in the calculation; no significance, therefore, should be attached to the current levels of the indicators, although the month-to- month changes may be used as a guide to the location of turning points. On the charts the parts of the curves which are liable to revision in the trend- elimination process are shown in pecked lines; where the composite indices are based on an incomplete set of indicators, the curves are shown as dotted lines. Additional tables giving the values of all series used are available from the CSO. 01-270 5986.

Cyclical indicators

Composite indices of indicator groups. January 1980 = 100

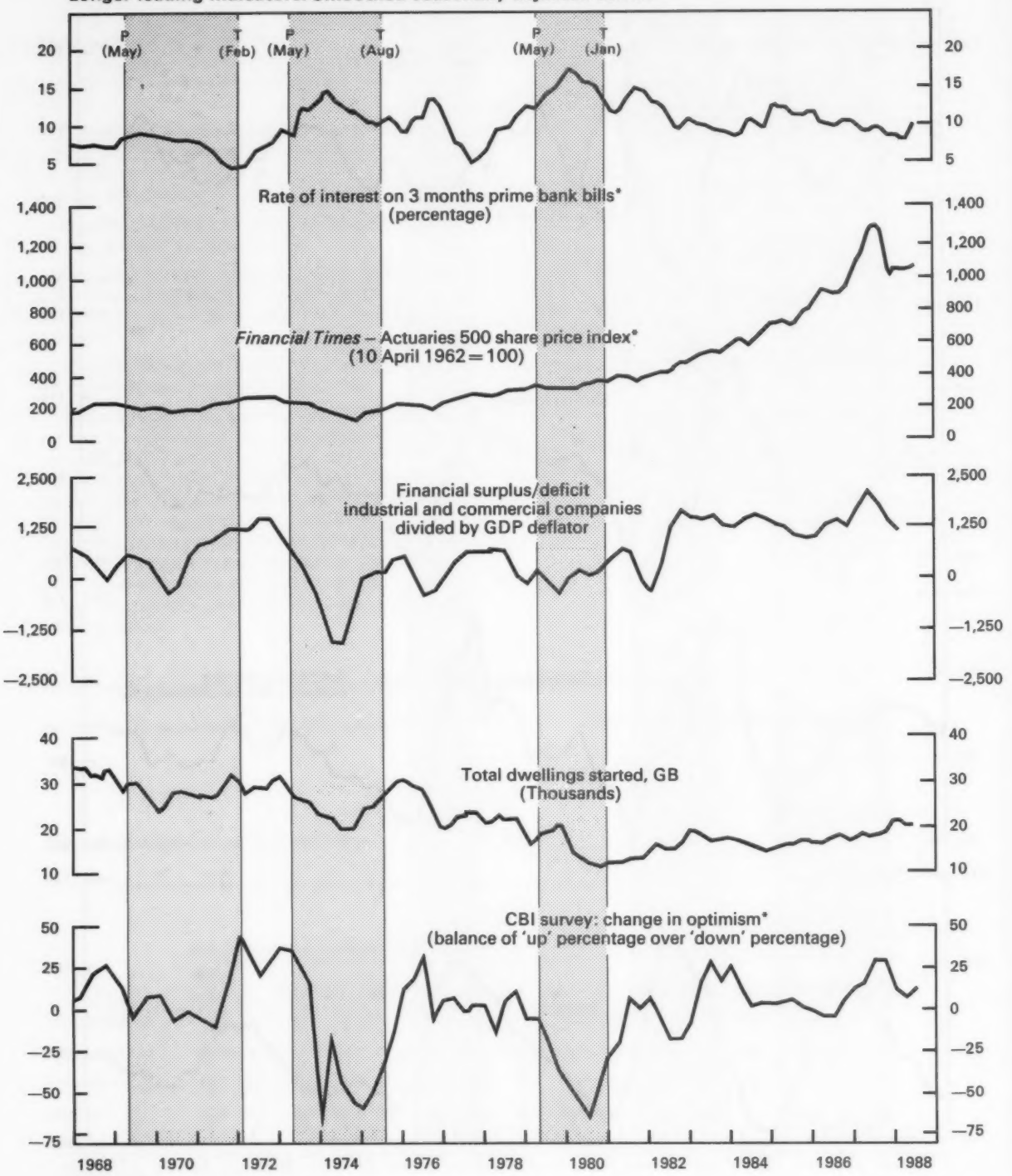


---- Subject to revision due to trend re-estimation

····· Based on incomplete data

Cyclical indicators by timing classification

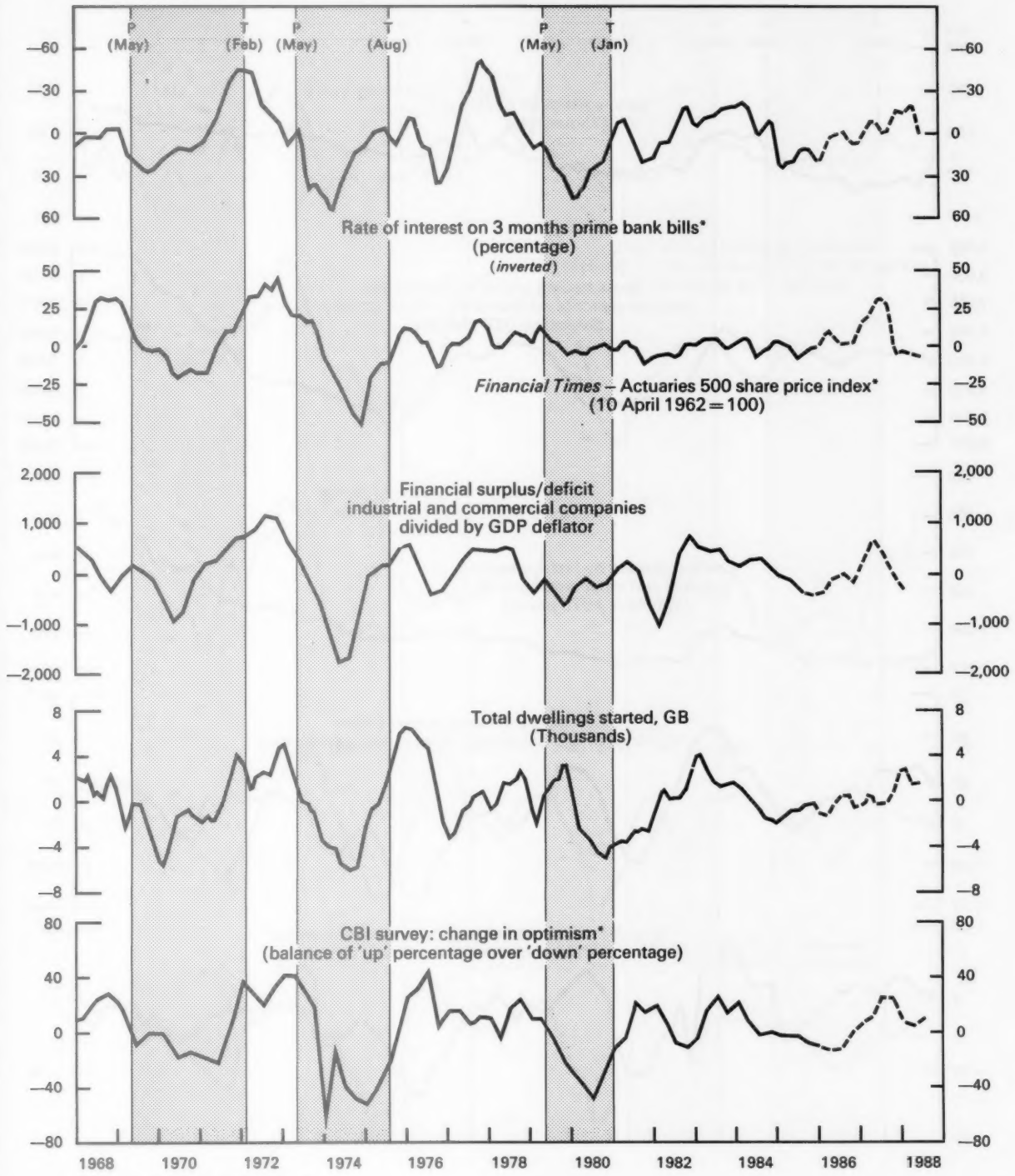
Longer leading indicators. Smoothed seasonally adjusted series



*Seasonally adjusted by CSO

Cyclical indicators by timing classification

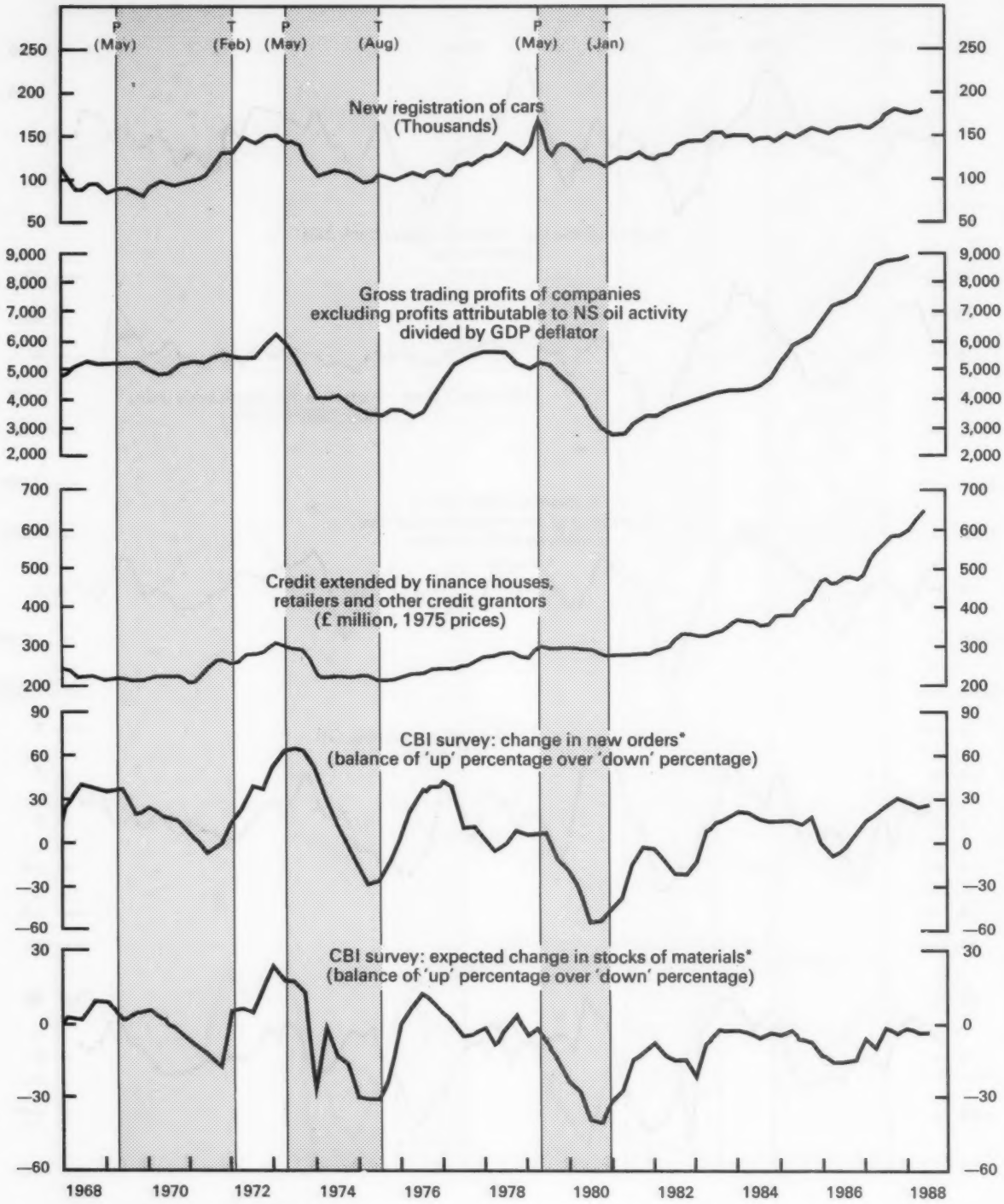
Longer leading indicators. Smoothed trend-eliminated series



*Seasonally adjusted by CSO

Cyclical indicators by timing classification

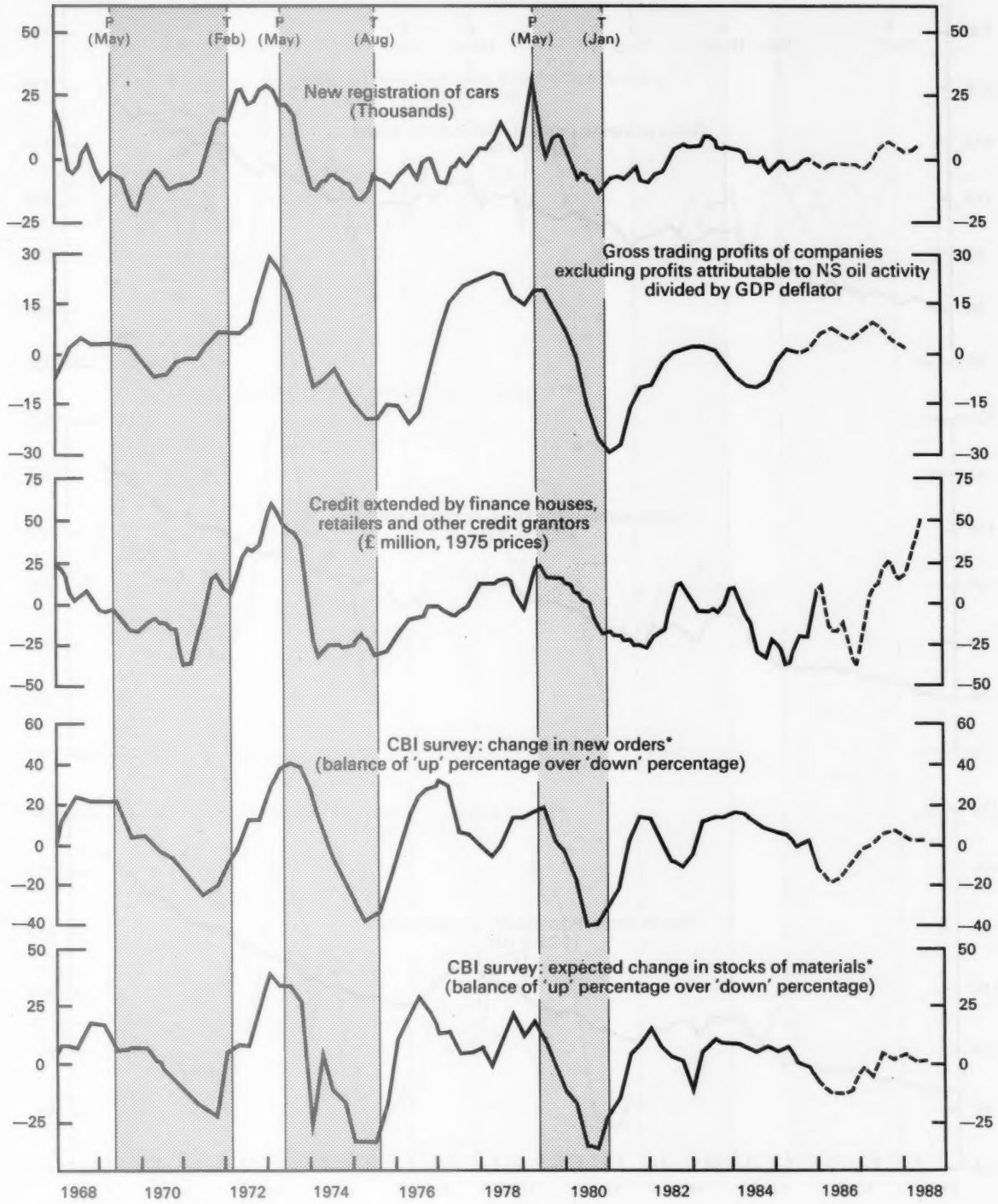
Shorter leading indicators. Smoothed seasonally adjusted series



*Seasonally adjusted by CSO

Cyclical indicators by timing classification

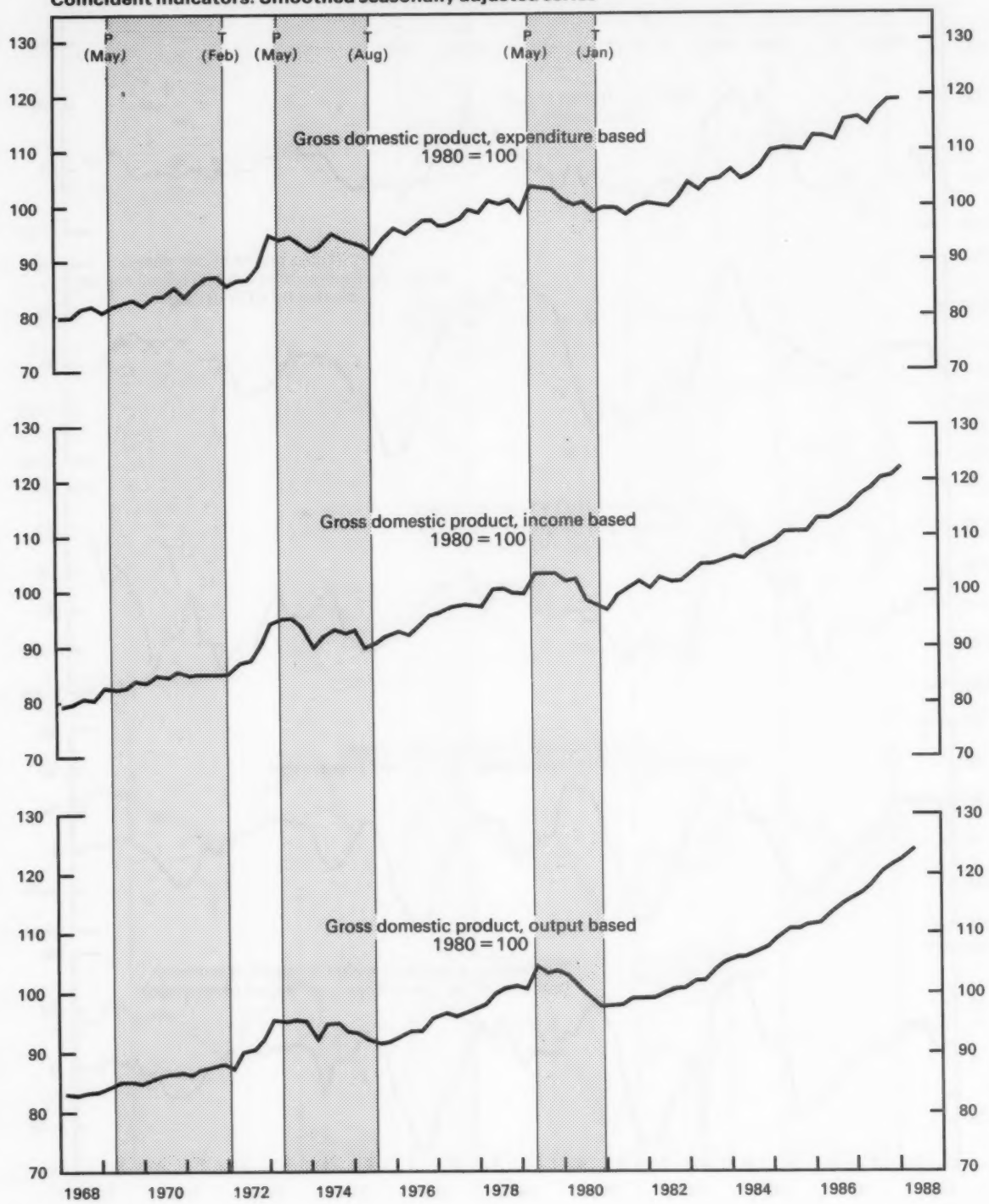
Shorter leading indicators. Smoothed trend-eliminated series



*Seasonally adjusted by CSO

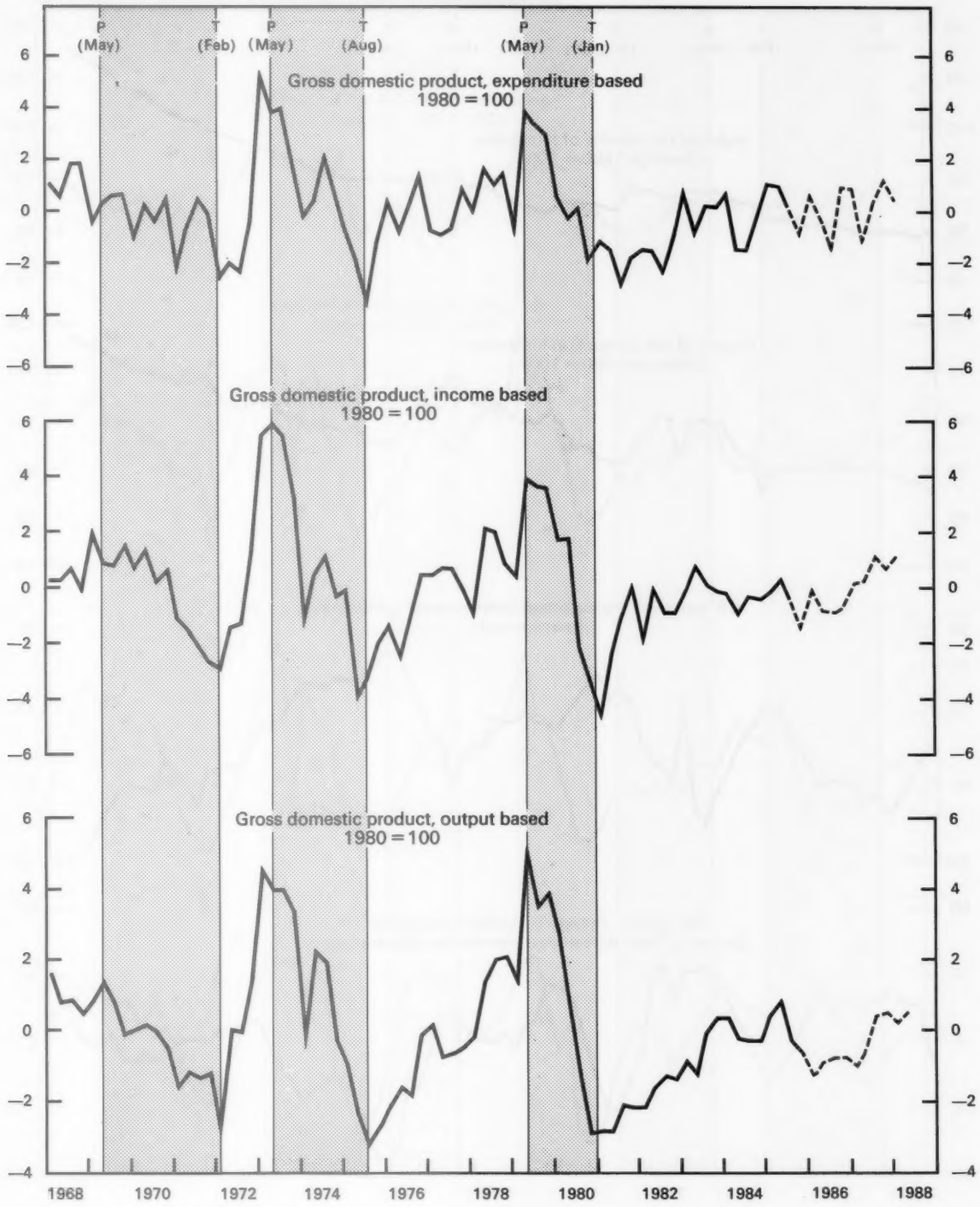
Cyclical indicators by timing classification

Coincident indicators. Smoothed seasonally adjusted series



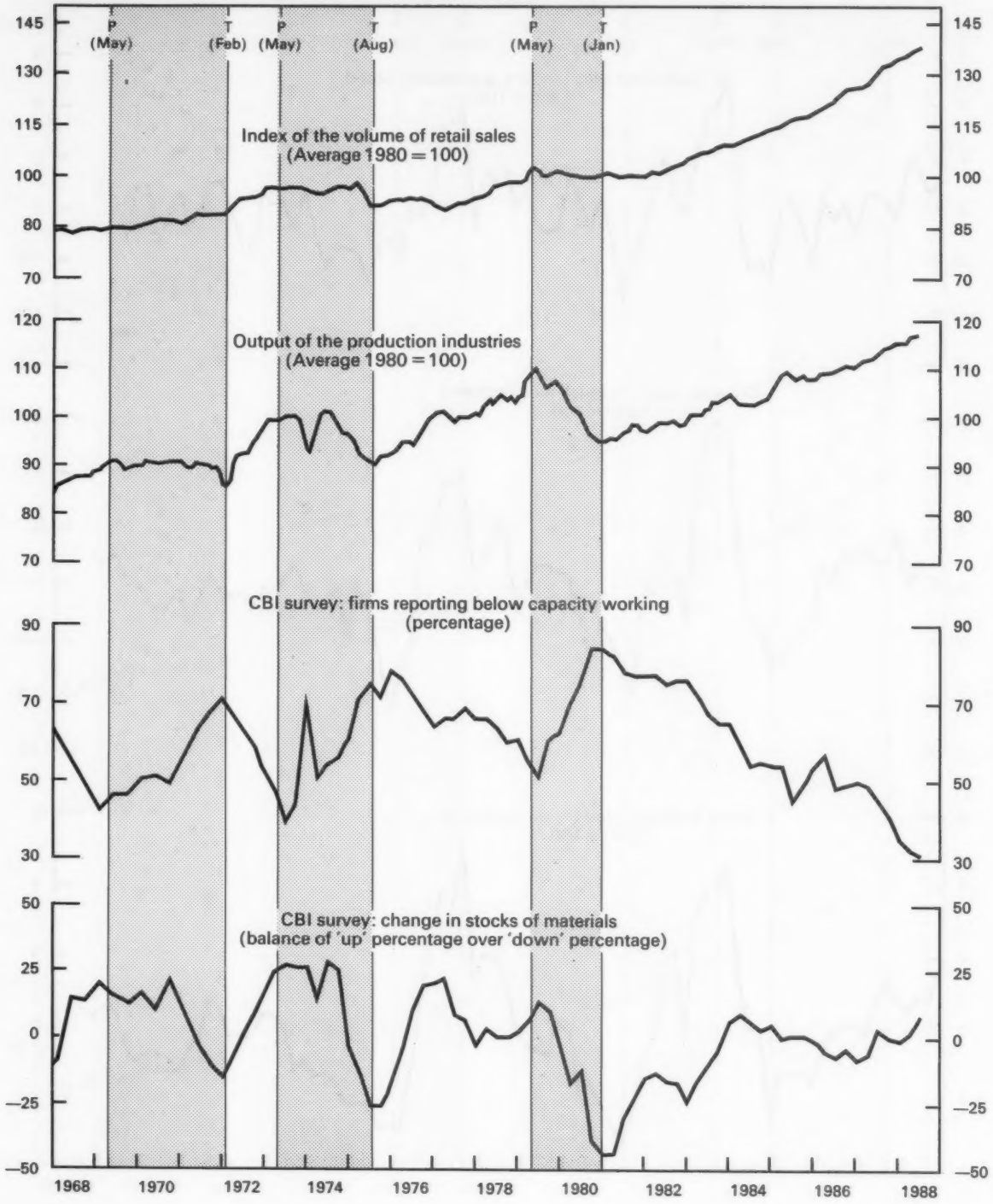
Cyclical indicators by timing classification

Coincident indicators. Smoothed trend-eliminated series

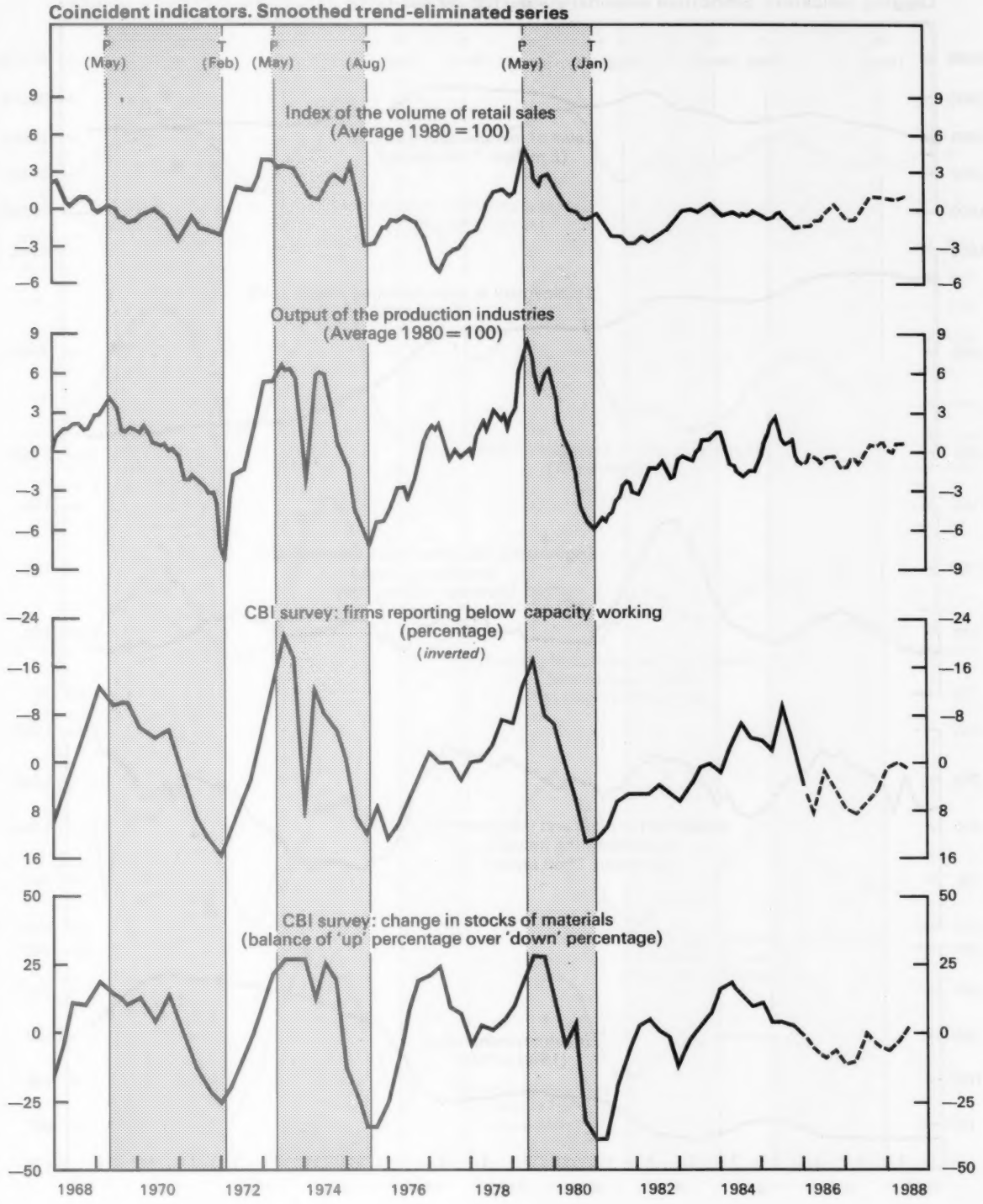


Cyclical indicators by timing classification

Coincident indicators. Smoothed seasonally adjusted series

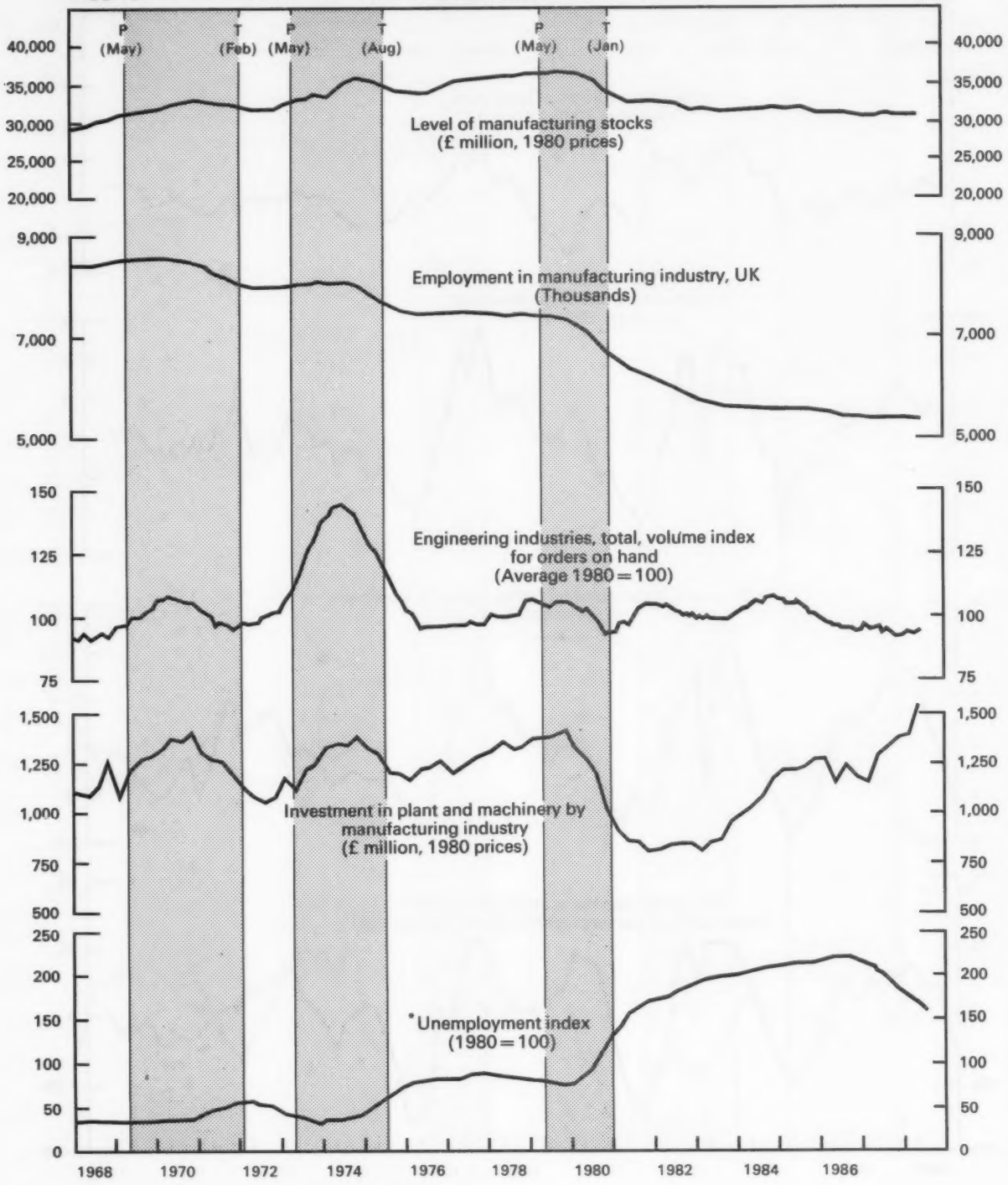


Cyclical indicators by timing classification



Cyclical indicators by timing classification

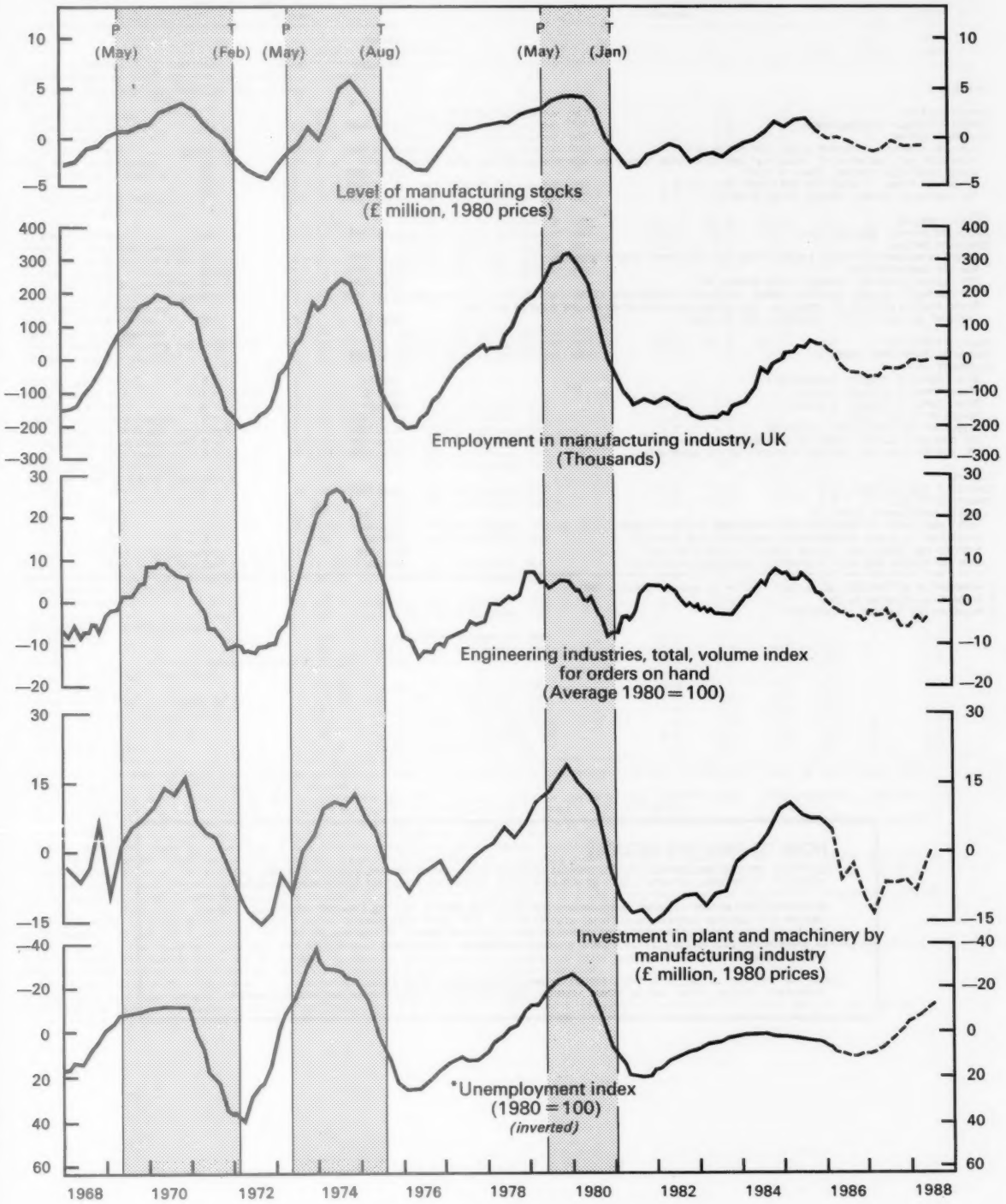
Lagging indicators. Smoothed seasonally adjusted series



*Adjusted for changes in the average of the count

Cyclical indicators by timing classification

Lagging indicators. Smoothed trend-eliminated series



*Adjusted for changes in the average of the count

The indicators: Their timing characteristics and data availability

Indicators	Latest data included	Timing relative to reference cycle dates (1) (-) leads, (+) lags Months: Average (mean)	Earliest	Latest
Longer leading				
Composite longer leading index	July 1988	-12	-21	- 5
Component series:				
Rate of interest, 3 months prime bank bills (2)	July 1988	-17	-28	-11
Financial surplus/deficit, industrial and commercial companies, divided by GDP deflator	1988 Q1	-15	-21	- 9
Total dwellings started, Great Britain	June 1988	-10	-25	+ 6
Financial Times - Actuaries 500 share index (2,3)	July 1988	- 9	-20	- 4
CBI quarterly survey: change in optimism (2)	July 1988	-10	-19	- 4
Shorter leading				
Composite shorter leading index	July 1988	- 5	-12	0
Component series:				
Credit extended by finance houses, retailers and other credit grantors	June 1988	- 6	-15	+ 3
New car registrations	June 1988	- 7	-26	0
CBI quarterly survey: change in new orders (2)	July 1988	- 8	-28	+ 2
CBI quarterly survey: expected change in stocks of materials (2)	July 1988	- 5	-15	- 2
Gross trading profits of companies, excluding stock appreciation and mineral oil and natural gas extraction, divided by GDP deflator	1988 Q1	- 6	-18	0
Roughly coincident				
Composite coincident index	July 1988	0	- 7	+ 5
Component series:				
Gross domestic product (expenditure)	1988 Q1	+ 1	- 9	+10
Gross domestic product (output)	1988 Q2	- 2	- 7	+ 1
Gross domestic product (income)	1988 Q1	+ 1	- 3	+ 5
Volume of retail sales	July 1988	- 3	-15	+ 6
Output of the production industries	June 1988	- 1	- 4	+ 2
CBI quarterly survey: capacity utilisation	July 1988	+ 2	- 3	+ 7
CBI quarterly survey: change in stocks of raw materials	July 1988	- 1	- 6	+ 8
Lagging				
Composite lagging index	June 1988	+10	+ 1	+17
Component series:				
Adult unemployment index (3)	July 1988	+ 6	- 1	+14
Total employment in manufacturing industries United Kingdom	June 1988	+ 8	- 1	+15
Investment in plant and machinery, manufacturing industry	1988 Q2	+11	+ 6	+18
Engineering industries, volume index for orders on hand	May 1988	+ 7	- 4	+15
Level of stocks and work in progress, manufacturing industry	1988 Q2	+11	0	+20

1 Assessed on performance up to last identified trough, January 1981.
2 Seasonally adjusted by CSO.
3 Adjusted for changes in coverage.

HOW TO FIND THE FIGURES

Earnings, betting and gaming, travel, population projections and estimates, retailing trade, education in schools, universities - do you know where to get the essential facts and figures?

Government Statistics - a brief guide to sources is a free booklet listing the most important, regular publications containing official statistics. It also gives departmental contact points for statistical information including addresses and telephone numbers of the enquiry points at the Central Statistical Office, the Statistics and Market Intelligence Library and the Business Statistics Office.

For the 1987 Edition write to the Information Services Division, Room 58/G, Government Offices, Great George Street, London, SW1P 3AQ, enclosing a stamped addressed envelope.

Measures of variability of selected economic series (1)

	Page	Period covered	Average percentage changes $\overline{CI}$	$\overline{I}$	$\overline{C}$	$\overline{I}/\overline{C}$	MCD or QCD	$\overline{I}/\overline{C}$ for MCD (or QCD) span
Quarterly series								
National income and components at 1980 prices								
GDP, factor cost								
Expenditure based	6	1st quarter 1970 to 2nd quarter 1987	1.4	0.9	0.9	1.1	2	0.4
Income based	6	1st quarter 1970 to 2nd quarter 1987	1.2	0.8	0.9	0.9	1	0.9
Output based	6,28	1st quarter 1970 to 2nd quarter 1987	1.0	0.5	0.8	0.7	1	0.7
Average estimate	6	1st quarter 1970 to 2nd quarter 1987	1.0	0.6	0.8	0.8	1	0.8
Consumers' expenditure	8,10	1st quarter 1970 to 2nd quarter 1987	1.2	0.7	0.9	0.8	1	0.8
Fixed capital formation								
Total	8,16	1st quarter 1970 to 2nd quarter 1987	2.2	1.6	1.4	1.2	2	0.5
Manufacturing industry	18	1st quarter 1970 to 2nd quarter 1987	3.4	1.7	2.5	0.7	1	0.7
Stockbuilding(2)								
Total	8,22	1st quarter 1970 to 2nd quarter 1987	421.7	293.8	236.9	1.2	2	0.5
Manufacturing	22	1st quarter 1970 to 2nd quarter 1987	273.8	163.6	163.2	1.0	2	0.5
Exports: goods and services	8	1st quarter 1970 to 2nd quarter 1987	2.9	2.2	1.7	1.3	2	0.5
Imports: goods and services	8	1st quarter 1970 to 2nd quarter 1987	3.3	2.4	2.1	1.1	2	0.4
Real personal disposable income	10	1st quarter 1970 to 2nd quarter 1987	1.6	1.1	1.1	1.1	2	0.3
Other national income series								
Gross trading profits of industrial and commercial companies	60	1st quarter 1970 to 2nd quarter 1987	6.1	2.9	4.6	0.6	1	0.6
Other quarterly series								
Construction output(3)	30	1st quarter 1970 to 2nd quarter 1987	2.1	1.4	1.3	1.1	2	0.4
Public sector borrowing requirement(4)	58	1st quarter 1970 to 2nd quarter 1987	795.6	571.0	379.7	1.5	2	0.8
Personal saving ratio(5)	10	1st quarter 1970 to 2nd quarter 1987	1.4	1.3	0.6	2.0	2	0.6
Monthly series								
Retail sales								
Food retailers	12	January 1971 to February 1987	0.9	0.8	0.3	3.0	4	0.8
Mixed retail businesses	12	January 1971 to February 1987	2.0	1.9	0.5	3.7	4	1.0
Clothing and footwear retailers	12	January 1971 to February 1987	2.5	2.4	0.6	4.1	4	1.0
Household goods retailers	12	January 1971 to February 1987	2.6	2.4	0.8	3.1	4	0.9
Other non-food retailers	12	January 1971 to February 1987	1.4	1.3	0.4	3.4	4	0.9
Cars: new registrations	12	January 1975 to December 1987	8.2	8.2	0.8	10.1	6	
Housing: public authorities(6)								
Starts	20	January 1958 to December 1987	12.6	12.4	1.9	6.5	6	1.2
Completions	20	January 1958 to December 1987	8.8	8.7	1.3	6.6	6	1.1
Housing: private								
Starts	20	January 1958 to December 1987	9.8	9.6	1.8	5.3	6	1.0
Completions	20	January 1958 to December 1987	6.2	6.2	1.0	6.5	6	1.1
Index of industrial production:								
Production industries(Revised definition)	5,26,28	January 1973 to October 1986	1.2	1.0	0.5	2.3	3	1.0
Manufacturing industries(Revised definition)	26,28	January 1973 to October 1986	1.3	1.2	0.4	2.7	4	0.8
Passenger car production:								
Home market	32	January 1976 to December 1986	12.2	12.0	1.8	6.8	6	1.4
Export	32	January 1976 to December 1986	15.2	14.6	2.6	5.7	6	1.1
Commercial vehicle production:								
Home market	32	January 1976 to December 1986	10.9	9.7	3.1	3.1	4	0.9
Export	32	January 1976 to December 1986	10.1	9.3	2.7	3.4	5	0.8
Unemployed males - excluding school-leavers(7)	(5,36)	January 1971 to October 1986	15.5	4.5	14.4	0.3	1	0.3
Unemployed females - excluding school-leavers(7)	(5,36)	January 1971 to October 1986	6.0	1.7	5.6	0.3	1	0.3
Vacancies unfilled at jobcentres (7)	(5,36)	April 1978 to September 1986	4.2	1.8	3.5	0.5	1	0.5
Average earnings: whole economy	40	January 1976 to December 1982	1.0	0.3	1.0	0.3	1	0.3
Exports: value, f.o.b.(8)	48	January 1970 to September 1985	4.6	4.3	1.5	2.9	3	0.9
Imports: value, f.o.b.(8)	48	January 1970 to September 1985	4.8	4.4	1.8	2.5	3	0.8
Money stock - £M3(9)	5,52	January 1980 to March 1985	1.2	0.8	1.1	0.7	1	0.7

1 For a complete description of these measures see article 'Measuring variability in economic time series' in Economic Trends, No 226, August 1972.
The following are brief definitions of the measures.
$\overline{CI}$ is the average month to month (quarter to quarter for quarterly series) percentage change without regard to sign, in the seasonally adjusted series.
$\overline{C}$ is the same for the trend component, a smooth flexible moving average of the seasonally adjusted series.
$\overline{I}$ is the same for the irregular component, obtained by dividing the trend component into the seasonally adjusted series, except for those series which are seasonally adjusted using an additive model, see footnotes (2,4,6 and 8).
$\overline{I}/\overline{C}$ is therefore a measure of the size of the relative irregularity of the seasonally adjusted series.
The average changes $\overline{I}$ and $\overline{C}$ can also be computed successively over spans of increasing numbers of months (quarters). MCD (QCD), months (quarters)for cyclical dominance, is the shortest span of months (quarters) for which $\overline{I}/\overline{C}$ is less than 1 and therefore represents the minimum period over which changes in the trend are on average, greater than the irregular movement.
2 The figures in the table were obtained from an additive analysis of stock changes so $\overline{CI}$, $\overline{I}$ and $\overline{C}$ are not percentage changes but differences in units of £ million. At present, seasonal adjustment of the published stocks series is performed multiplicatively on the level of stocks.
3 Series relates to Great Britain.
4 The seasonal adjustment is additive, so the figures for $\overline{CI}$, $\overline{I}$ and $\overline{C}$ are differences in units of £ million.
5 The figures in the table were obtained from an additive analysis of the personal saving ratio so $\overline{CI}$, $\overline{I}$ and $\overline{C}$ are differences in percentage points.
6 Series relate to Great Britain, though variability measures calculated from England and Wales component.
7 Series relate to Great Britain and may be found in Tables 2.2 and 3.2 of Employment Gazette.
The seasonal adjustment is additive, so the figures for $\overline{CI}$, $\overline{I}$ and $\overline{C}$ are not percentage changes but differences in units of thousands.
8 The figures have been updated as described in an article in Economic Trends, No 320, June 1980.
9 Although £M3 flows are seasonally adjusted additively, the figures above for $\overline{CI}$, $\overline{I}$ and $\overline{C}$ for levels are presented as percentages of the level of the trend in the preceding month.

Research and development in the United Kingdom in 1986

Branch S2C, Department of Trade and Industry

Introduction

Total UK expenditure on research and development (R&D) in science and technology and social sciences and humanities at current prices increased by about 11 per cent between 1985 and 1986 — from £8.1 billion to £9.0 billion (table 1). After allowing for the higher costs of R&D, the increase in expenditure at 1981 prices was about 8 per cent.

Table 1 shows that over the longer term 1975-1986 the proportion of gross expenditure on R&D funded by government has fallen noticeably while that funded by industry and other sources has increased appreciably. Over the same period, gross expenditure on R&D as a percentage of GDP has tended to increase slightly. Employment in central government has fallen sharply between 1975 and 1986 while that in industry after increasing up to 1981 has tended to return to the levels of the late 1970s although this comparison is affected by the inclusion of employment in the UK AEA in industry in 1986.

There are some gaps in the time series given in table 1, because surveys of industrial R&D were not carried out in all years. The Department of Trade and Industry now carries out two annual surveys, one addressed to government departments and the other, to industry. Further details are given in the Annex.

Table 2 shows the figures of R&D funded by central government based on returns from government departments. It brings together the intramural expenditure on R&D carried out in government establishments and laboratories and that performed in industry and higher education but financed by central government. This is different from table 1 which aggregates the expenditure on R&D performed intramurally in various sectors of the economy in the UK based on returns from those performing the R&D. Table 2 includes R&D carried out overseas, whereas table 1 excludes this.

Over the years 1976-1987 expenditure on R&D net of receipts at constant 1981 prices reached a peak in 1985. Since then it has tended to decline, with a fall of 3 per cent between 1985 and 1986 and a small further fall between 1986 and 1987. Intramural expenditure at 1981 prices declined steadily since 1982 to reach a level in 1987 19 per cent less than in 1982. In relationship to GDP, net expenditure by government for civil purposes has tended to decline more than net expenditure for defence purposes over the period 1981-1987.

The figures in table 3 provide the opportunity to make some international comparisons, based on calculations produced by the Organisation for Economic Cooperation and Development (OECD) using their definitions. Comparisons of this kind should be made with caution. The table shows some striking variations in the proportions of government funded R&D allocated to defence objectives : only the USA appears to have had a higher proportion than the United Kingdom in this respect, in 1986.

Expenditure and employment on research and development in the United Kingdom, 1975 to 1986 [1]

TABLE 1

	1975	1978	1981	1983	1985	1986
(a) Expenditure at current prices:						
£ million						
Performed by:						
Government [2]	576	768	1356	1505	1623	1378
Industry [2]	1340	2324	3792	4163	5146	6075
Higher education [3]	310	467	816	950	1061	1240
Others	70	118	170	194	272	336
Totals	2296	3677	6134	6812	8102	9029
Totals as percentages of gdp at market prices	2.2	2.2	2.4	2.3	2.3	2.4
Funded by: percentages						
Government	55	49	49	50	43	40
Industry	38	42	41	42	46	48
Others (including overseas sources)	7	9	10	8	11	12
	100	100	100	100	100	100
(b) Expenditure at 1981 prices:						
£ million						
Performed by:						
Government [2]	1290	1171	1356	1326	1297	1058
Industry [2]	3066	3581	3792	3575	4005	4609
Others	851	892	986	1008	1065	1211
	5207	5645	6134	5909	6367	6878
(c) Employment on R&D, end-year:						
thousands						
Central Government [2]	77	72	64	59	56	45
Industry [2]	181	190	195	186	173	188

1 Including research in the social sciences and humanities, but excluding work performed abroad.
2 In April 1986, UK AEA became a public corporation and ceased to be part of the Department of Energy.
3 Change in coverage between 1978 and 1981 tends to inflate the apparent increase between these two years.

Source: Department of Trade and Industry

Research and development financed by central government [1]

TABLE 2

	Financial years beginning April											
	1976	1977	1978	1979	1980	1981 [2]	1982	1983	1984	1985	1986	1987 [3]
(a) Expenditure at current prices £ million												
Gross expenditure												
Intramural	639	700	765	924	1 107	1 348	1 476	1 501	1 525	1 623	1 372	1 511
Extramural	1 099	1 234	1 458	1 856	2 310	2 506	2 460	2 785	3 010	3 300	3 405	3 610
Total	1 738	1 934	2 222	2 780	3 417	3 854	3 936	4 285	4 535	4 923	4 777	5 121
Net expenditure												
Defence	755	871	1 028	1 306	1 628	1 745	1 765	1 984	2 176	2 341	2 264	2 426
Research councils	196	207	239	279	341	421	451	481	507	528	558	613
Other Civil	696	736	831	1 016	1 215	1 398	1 474	1 522	1 580	1 707	1 767	1 770
Total net expenditure	1 647	1 814	2 097	2 601	3 184	3 564	3 690	3 987	4 263	4 576	4 589	4 809
(b) Expenditure at constant 1981 prices: £ million												
Total net expenditure	3 162	3 058	3 193	3 389	3 500	3 564	3 445	3 555	3 640	3 687	3 576	3 568
Intramural (gross)	1 277	1 180	1 165	1 204	1 217	1 348	1 378	1 338	1 302	1 308	1 069	1 121
(c) Net expenditure as a percentage of GDP at market prices												
Defence	0.60	0.60	0.61	0.66	0.71	0.69	0.64	0.66	0.68	0.67	0.60	0.60
Civil	0.71	0.65	0.64	0.66	0.68	0.71	0.70	0.67	0.66	0.63	0.62	0.59
Total net expenditure	1.30	1.25	1.25	1.32	1.38	1.40	1.34	1.33	1.34	1.30	1.23	1.19

1 As returned by government, including work performed overseas.
2 There is a break in the series after 1980, arising from the inclusion of central staff support and superannuation.
3 Estimates

Source: Department of Trade and Industry.

Table 2 records a total government gross expenditure on R&D of £4777 million in 1986/87: this total is broken down into the expenditures by the various departments in table 4. In order to arrive at total gross expenditure on R&D for central government, expenditure on R&D in a department or research council performed elsewhere in central government is omitted. If this were not done it would be counted twice, once under extramural expenditure and a second time under intramural expenditure in a different department. The total expenditure on extramural R&D (£3405 million) greatly exceeded that for intramural work — this disparity has been widened by the change for UK AEA which became a public corporation in April 1986 and ceased to be part of the Department of Energy.

Table 5 provides a detailed analysis of net expenditure on R&D by government departments for the years 1985/86 to 1990/91. By far the biggest spender was the Ministry of Defence. Expenditure on R&D for the social sciences and humanities was relatively small.

Table 6 provides an analysis of gross central government current expenditure on intramural R&D for science and technology into basic research, applied research and development. This table is also affected by the change for UK AEA. As would be expected, basic research is performed mainly by the research councils. Ministry of Defence accounts for the larger share of expenditure on experimental development.

In table 7, the totals of net government expenditure on R&D in the years 1985/86 to 1988/89 are disaggregated on the basis of the European Community objectives for R&D spending ('NABS' in the French language acronym: see Annex). The figures shows that an appreciable increase is expected in R&D for industrial production and technology between 1987/88 and 1988/89: this is due mainly to launch aid which can vary very erratically from year to year.

Total expenditure on R&D and Government funded R&D in 1986 for the United Kingdom and six other countries, as percentages of gross domestic product

TABLE 3

	Total expenditure on R&D	Government funded R&D		
		In total	Defence objectives	Civil objectives
	percentages of gdp			
United Kingdom	2.4	1.2	0.6	0.6
France	2.3	1.4	0.5	0.9
Federal Republic of Germany	2.7 [1]	1.1	0.1	1.0
Italy	1.2	0.7 [2]	0.05 [2]	0.7 [2]
Japan	2.6 [1]			
Sweden	2.8 [1]	1.2	0.3	0.9
United States	2.8	1.3	0.9	0.4

1 1985 data.
2 Not available.

Source: OECD.

Table 8 displays the government employment on R&D, with separate figures for scientists and engineers, technicians, and others. The residual group includes industrial staff of the research establishments. The total employment has fallen from about 56,000 in 1986 to some 45,000 in 1987, mainly due to the removal of UK AEA from government; employment by research councils increased in the same period. In 1987 defence accounted for more than 50 per cent of manpower employed by government on R&D. The numbers employed by government on R&D for social sciences and humanities appear very small — much of the R&D in this field takes place in universities.

Gross central government expenditure on R&D — financial year 1986/87

TABLE 4

£ million

	Intramural expenditure					Extramural expenditure					
	Salaries and wages[1]	Other current costs	Total current costs	Capital costs	Total intramural expenditure	Higher education institutions	Private industry and Public Corporations[2]	Other extramural expenditure	Overseas	Total extramural expenditure	Total intra and extramural
R & D in science and technology											
Civil R&D											
Agriculture, Fisheries and Food	31.5	22.4	53.9	4.1	58.0	2.4	5.3	6.1	0.0	13.9	71.8
Education and Science	..	..	..	..	..	19.6	..	28.8	..	48.4	48.4
Energy	1.3	0.7	1.9	..	1.9	4.9	178.0	1.1	0.4	184.4	186.3
Environment	13.5	10.2	23.7	4.2	27.9	2.8	18.4	2.9	0.2	24.2	52.1
Overseas Development Administration	3.3	2.7	6.0	0.6	6.6	4.8	0.2	3.0	9.1	17.1	23.6
Health and Social Security	..	..	..	..	..	6.1	2.1	32.1	0.1	40.4	40.4
Health and Safety	1.7	1.2	2.9	0.3	3.2	1.1	0.5	0.2	0.1	1.9	5.2
Home Office	3.5	3.4	6.8	0.2	7.0	0.6	2.9	0.1	0.2	3.7	10.8
Trade and Industry	18.2	13.7	31.9	4.9	36.8	3.7	335.8	1.3	58.8	399.7	436.5
Transport	9.6	5.7	15.4	1.1	16.5	2.2	3.0	1.3	..	6.5	23.0
Northern Ireland Depts.	6.0	3.0	9.0	2.0	11.0	0.3	5.0	1.2	..	6.5	17.6
Scottish Depts.	3.4	3.4	6.9	0.2	7.0	5.2	0.1	34.6	..	39.9	46.9
Welsh Depts.	..	..	..	..	0.0	..	..	1.5	..	1.5	1.5
Employment	..	..	..	..	..	..	..	..	..	..	..
Manpower Services Commission	..	..	..	..	..	..	..	..	..	..	..
Other Depts.	13.2	4.8	17.9	0.4	18.3	1.1	0.4	6.5	..	8.0	26.4
Research Councils											
Agriculture and Food	59.0	24.0	82.9	10.6	93.5	7.8	..	..	..	7.8	101.3
Medical	53.3	24.2	77.5	11.1	88.6	33.1	..	11.5	3.3	48.0	136.6
Natural Environment	39.7	30.8	70.5	11.0	81.4	7.4	0.5	11.8	2.1	21.7	103.1
Science and Engineering	40.9	39.2	80.1	19.7	99.8	101.5	0.2	38.2	71.5	211.4	311.2
Total Research Councils	192.8	118.2	311.0	52.4	363.4	149.8	0.7	61.5	76.8	288.9	652.3
University Grants Committee	..	..	..	..	..	580.0	..	..	..	580.0	580.0
Total Civil R&D	297.9	189.4	487.2	70.6	557.8	784.6	552.5	182.2	145.6	1664.9	2222.7
Defence R&D											
Ministry of Defence	404.4	244.4	648.8	152.4	801.2	16.0	1404.6	3.5	92.8	1516.9	2318.0
Total R & D in science and technology	702.3	433.7	1136.0	222.9	1359.0	800.6	1957.0	185.7	238.4	3181.8	4540.7
R & D in social science and humanities[3]											
Civil R&D											
Agriculture, Fisheries and Food	..	..	..	..	..	0.2	0.0	0.0	..	0.3	0.3
Education and Science	0.2	0.1	0.3	0.0	0.3	12.2	0.3	11.7	0.1	24.3	24.6
Environment	0.6	0.2	0.7	0.0	0.8	0.3	0.9	0.5	..	1.7	2.5
Overseas Development Administration	0.0	0.0	0.1	..	0.1	0.7	0.0	..	2.8	3.6	3.6
Health and Social Security	..	..	..	..	..	4.1	..	4.9	..	8.9	8.9
Home Office	0.9	0.4	1.3	0.1	1.3	0.5	0.1	0.2	0.0	0.8	2.2
Trade and Industry	..	..	..	..	..	0.0	0.1	0.0	..	0.1	0.1
Transport	0.9	0.6	1.5	0.1	1.6	0.2	0.2	0.1	..	0.5	2.2
Northern Ireland Depts.	0.5	0.2	0.7	0.1	0.7	0.2	0.0	0.0	..	0.2	0.9
Scottish Depts.	0.5	0.1	0.6	..	0.6	2.7	0.1	1.7	..	4.5	5.1
Welsh Depts.	0.2	..	0.2	..	0.2	0.3	..	1.5	..	1.8	2.0
Employment	0.4	0.1	0.5	..	0.5	0.3	..	0.7	0.0	1.0	1.5
Manpower Services Commission	0.8	0.2	1.0	..	1.0	9.6	4.3	2.9	0.0	16.8	17.9
Other Depts.	1.1	0.6	1.7	..	1.7	0.6	0.1	0.2	0.0	0.9	2.6
Economic and Social Research Council	1.6	1.1	2.7	..	2.7	12.6	..	4.8	..	17.4	20.0
University Grants Committee	..	..	..	..	..	140.0	..	..	..	140.0	140.0
Total Civil R&D	7.6	3.6	11.2	0.3	11.4	184.6	6.2	29.1	3.0	222.9	234.4
Defence R&D											
Ministry of Defence	1.4	0.2	1.6	..	1.6	..	..	..	..	..	1.6
Total R&D in social sciences and humanities	9.0	3.8	12.8	0.3	13.0	184.6	6.2	29.1	3.0	222.9	236.0
Total R&D in all fields	711.3	437.5	1148.8	223.2	1372.0	985.2	1963.3	214.8	241.4	3404.7	4776.7

1 Total salary costs including employers national insurance contributions and superannuation payments.
2 Includes UK AEA.
3 The figures for social science R & D are less reliable than those for R & D in general because of the difficulties of distinguishing between social science research and other related activities such as information services and general purpose data collection.

Source: Department of Trade and Industry

Net[1] central government expenditure on R&D by department

TABLE 5

£ million

	Outturn		Estimate			
	1985/86[2]	1986/87	1987/88	1988/89	1989/90	1990/91
R&D in science and technology						
Civil departments						
Agriculture, Fisheries and Food	118.2	118.0	114.2	121.1	120.3	118.3
Education and Science	45.6	48.4	53.3	60.2	61.0	62.6
Energy[3]	221.9	192.4	175.8	200.5	178.6	178.7
Environment	43.8	56.4	60.7	62.9	61.9	63.5
Overseas Development Administration	22.3	23.3	28.4	29.9	30.0	31.2
Health and Social Security	20.0	40.4	40.0	42.3	44.7	46.2
Health and Safety	5.3	5.4	5.1	5.5	5.7	6.0
Home Office	10.9	11.0	12.9	13.3	13.6	13.9
Trade and Industry	374.3	362.8	324.3	383.3	398.6	354.3
Transport	22.6	22.4	23.7	25.6	25.5	25.6
Northern Ireland Depts.	13.0	16.1	17.0	19.6	20.8	22.0
Scottish Depts.	48.9	48.3	48.2	50.8	51.3	51.4
Welsh Depts.	1.0	1.5	0.8	1.0	0.9	0.9
Other Depts.	25.3	25.5	28.6	31.3	32.6	33.7
Research Councils						
Agriculture and Food	44.7	46.3	48.0	51.0	52.9	54.0
Medical	121.3	127.6	139.0	146.7	155.9	160.1
Natural Environment	66.1	68.0	71.5	89.1	94.6	80.3
Science and Engineering	277.4	295.9	332.9	340.3	338.1	345.2
Total Research Councils	509.6	537.7	591.5	627.0	641.5	639.7
University Grants Committee	517.0	580.0	610.0	625.0	635.0	655.0
Total Civil departments	1999.8	2089.7	2134.4	2299.1	2321.9	2302.8
Defence R&D						
Ministry of Defence	2339.3	2262.6	2424.7	2352.5	2502.2	2457.0
Total R&D in science and technology	4339.1	4352.3	4559.1	4651.6	4824.1	4759.8
R&D in social sciences and humanities						
Civil departments						
Agriculture, Fisheries and Food	0.2	0.3	0.3	0.3	0.3	0.3
Education and Science	25.1	24.4	25.5	27.5	27.8	28.2
Environment	1.9	2.6	3.2	3.1	3.2	3.3
Overseas Development Administration	1.2	3.6	4.1	4.1	4.1	4.2
Health and Social Security	7.2	8.9	10.9	12.1	10.3	10.5
Home Office	2.8	2.3	2.9	3.2	3.3	3.4
Trade and Industry	0.1	0.1	0.1	0.2	0.2	0.2
Transport	2.4	2.2	2.3	2.5	2.5	2.6
Northern Ireland Depts.	0.8	0.9	1.1	1.2	1.2	1.2
Scottish Depts.	4.9	5.1	5.4	5.7	5.7	5.9
Welsh Depts.	1.5	2.0	1.1	1.0	0.9	0.9
Employment	1.1	1.5	2.0	3.2	3.0	3.0
Manpower Services Commission	13.7	18.4	25.3	27.9	22.6	22.8
Other Depts.	1.6	2.9	2.7	2.5	2.6	2.6
Economic and Social Research Council	18.4	20.0	21.0	22.7	23.9	24.4
University Grants Committee	152.0	140.0	140.0	145.0	145.0	145.0
Total Civil departments	235.1	235.3	247.9	262.1	256.6	258.5
Defence R&D						
Ministry of Defence	1.6	1.6	1.7	1.7	1.8	1.8
Total R&D in social sciences and humanities	236.6	236.9	249.6	263.8	258.4	260.2
Unallocated					12.3	27.6
Total R&D in all fields	4575.7	4589.2	4808.7	4915.4	5094.8	5047.6

Note: The Science Budget has unallocated provisions of £12.3 million and £27.6 million in 1989/90 and 1990/91 respectively. These sums have been retained for future distribution to the Research Councils on the advice of the Advisory Board for the Research Councils.

1 After deduction of receipts
2 Revised.
3 Including the relevant expenditure for UK AEA.

Source: Department of Trade and Industry

Gross central government expenditure on intramural research and development [1]

TABLE 6

£ million

Current (i.e. non-capital) expenditure	1984/85				1985/86 [2]				1986/87			
	Basic research	Applied research	Devel-opment	Total	Basic research	Applied research	Devel-opment	Total	Basic research	Applied research	Devel-opment	Total
Civil departments												
Agriculture, Fisheries and Food	6.0	17.0	38.6	61.6	..	18.0	35.0	53.0	..	17.9	35.9	53.9
Education and Science	..	..	..	..	..	..	..	..	..	..	..	..
Energy	21.3	61.1	234.6	317.0	0.3	0.7	1.1	2.2	0.2	0.8	0.9	1.9
UK AEA [3]					..	317.3	30.9	348.2	n/a	n/a	n/a	n/a
Environment	..	12.1	1.1	13.2	..	13.7	1.7	15.4	..	22.1	1.6	23.7
Overseas Development Administration	..	4.5	0.1	4.6	..	4.7	0.0	4.7	..	6.0	..	6.0
Health and Social Security	..	1.4	..	1.4	0.3	1.2	0.0	1.5	..	..	..	..
Health and Safety	..	2.8	1.2	4.0	..	2.1	0.7	2.8	..	2.5	0.4	2.9
Home Office	..	1.5	4.6	6.1	..	5.5	0.9	6.4	..	5.7	1.1	6.8
Trade and Industry	0.7	20.2	10.1	31.0	..	23.2	8.8	32.0	..	23.3	8.6	31.9
Transport	..	12.5	3.1	15.5	..	12.5	2.6	15.1	..	12.7	2.6	15.4
Northern Ireland Depts.	0.2	4.2	1.9	6.3	0.4	4.9	2.2	7.5	0.8	4.7	3.5	9.0
Scottish Depts.	1.6	7.8	0.6	10.0	1.8	7.3	0.7	9.7	0.1	6.2	0.5	6.9
Welsh Depts.	..	..	..	..	..	..	..	..	..	..	..	..
Employment	..	..	..	..	..	..	..	..	..	..	..	..
Manpower Services Commission	..	..	..	..	..	..	..	..	..	..	..	..
Other departments	9.5	..	0.9	10.4	10.6	2.9	4.3	17.9	10.9	5.0	2.1	17.9
Research Councils												
Agricultural and Food	41.9	..	..	41.9	27.2	20.3	..	47.6	56.7	26.3	..	82.9
Medical	21.8	46.4	..	68.2	23.5	49.2	..	72.6	..	77.5	..	77.5
Natural Environment	54.6	9.6	..	64.2	50.8	15.6	..	66.5	53.9	16.6	..	70.5
Science and Engineering	74.6	..	..	74.6	41.9	35.7	..	77. 7	42.4	37.7	..	80.1
Total Research Councils	192.9	56.0	..	248.9	143.5	120.8	..	264.3	153.0	158.0	..	311.0
University Grants Committee	..	..	..	..	..	..	..	..	..	..	..	..
Total Civil	232.3	201.1	296.7	730.1	156.9	534.8	89.0	780.7	165.0	265.0	57.2	487.2
Defence	0.0	245.9	328.8	574.8	0.0	237.1	367.4	604.6	0.0	264.7	384.1	648.8
Total	232.3	447.0	625.5	1304.9	156.9	771.9	456.4	1385.2	165.0	529.7	441.3	1136.0

1 Excluding R&D in the social sciences and humanities

2 Revised.

3 UK AEA is now a public corporation and no longer part of Department of Energy

N/a Not applicable

Source: Department of Trade and Industry.

Net central government expenditure on R&D: analysis by European Community objectives for R&D spending

TABLE 7

£ million

	Outturn		Estimate	
	1985/86 [1]	1986/87	1987/88	1988/89
Exploration and exploitation of Earth				
Total	77.5	79.8	82.7	102.6
General research	66.2	68.3	71.8	. .
Earth's main crust and mantle excluding sea bed	0.5	0.3	0.3	. .
Atmosphere	4.4	6.3	3.9	. .
Other	6.4	4.9	6.8	. .
Infrastructure and general planning of land-use				
Total	54.1	65.5	72.9	76.5
Construction and planning of buildings	15.9	26.9	27.5	. .
Transport systems	14.6	14.2	15.6	. .
Civil engineering	11.8	10.8	14.7	. .
Other	11.8	13.6	15.1	. .
Control of environmental pollution				
Total	53.4	48.8	48.0	53.5
General research	1.6	3.8	3.0	. .
Water pollution	6.0	6.0	5.5	. .
Atmospheric pollution	8.9	9.6	10.0	. .
Radioactive pollution	31.7	22.7	19.8	. .
Other scientific research on pollution	5.3	6.8	9.6	. .
Protection and promotion of human health				
Total	163.0	190.0	205.0	218.7
General research	139.9	161.5	175.9	. .
Biomedical engineering and medicines	2.9	6.4	5.4	. .
Nutrition and food hygiene	8.3	7.2	6.6	. .
Other	11.9	14.9	17.1	. .
Production, distribution and rational utilization of energy				
Total	204.9	187.6	170.3	193.9
Nuclear fission	153.2	135.6	113.8	. .
Nuclear fusion	18.8	18.9	20.8	. .
Renewable energy sources	14.2	13.2	15.4	. .
Other	18.7	19.9	20.4	. .
Agricultural production and technology				
Total	203.5	198.1	203.1	213.9
General research	15.4	19.3	21.2	. .
Animal products	40.4	40.5	41.8	. .
Fishing and fish farming	14.0	9.5	10.0	. .
Crops	88.0	87.1	86.5	. .
Other	45.6	41.7	43.6	. .
Industrial production and technology				
Total	435.3	443.6	417.7	476.8
General research	155.8	164.8	174.0	. .
Manufacturing/processing techniques, materials research	29.9	30.1	29.4	. .
Manufacture of motor vehicles/other transport	134.1	138.0	111.3	. .
Electrical and electronic engineering	62.2	63.7	63.4	. .
Other	53.3	47.0	39.5	. .
Social structures and relationships				
Total	55.8	62.3	72.1	70.6
Education and training	33.3	36.8	44.0	. .
Other research with regard to society	22.5	25.5	28.1	. .
Exploration and exploitation of space	127.9	123.9	130.9	140.0
Research financed from general university funds	669.0	720.0	750.0	770.0
Non-oriented research				
Total	128.0	196.7	221.4	234.4
Mathematics and natural sciences	107.3	110.7	132.7	. .
Engineering sciences	6.3	7.2	7.2	. .
Social sciences and humanities	8.6	8.4	8.8	. .
Other	61.7	70.4	72.7	. .
Other civil research	12.4	14.2	14.1	15.2
Defence	2335.0	2258.6	2421.1	2349.4
TOTAL ALL OBJECTIVES	4575.7	4589.2	4808.7	4915.4

Note: Expenditure under any one objective may be the addition of R&D for more than one programme.
1 Revised

Source: Department of Trade and Industry

Central government employment on research and development — average for the year

TABLE 8

Thousands

	1986					1987				
	Science and technology					Science and technology				
	Scientists and engineers	Technicians	Other [1]	Social science	Total	Scientists and engineers	Technicians	Other [1]	Social science	Total
Civil departments										
Agriculture, Fisheries and Food	0.9	0.5	0.7	. .	2.1	0.8	0.5	0.6	. .	1.9
Education and Science	. .	. .	. .	0.0	0.0	. .	. .	. .	0.0	0.0
Energy	0.0	. .	0.0	. .	0.1	0.0	. .	0.0	. .	0.1
UK AEA	3.4	1.6	8.6	. .	13.6	n/a	n/a	n/a	n/a	n/a
Environment	0.4	0.2	0.4	0.0	0.9	0.4	0.2	0.3	0.0	0.9
Overseas Development Administration	0.2	0.1	0.1	0.0	0.3	0.2	0.1	0.1	0.1	0.0
Health and Social Security [2]	0.1	0.0	0.0	0.0	0.1	. .	. .	. .	. .	. .
Health and Safety	0.1	0.0	0.0	. .	0.1	0.1	0.0	0.0	. .	0.1
Home Office	0.1	0.0	0.0	0.1	0.3	0.2	0.0	0.0	0.0	0.3
Trade and Industry	0.6	0.2	0.5	. .	1.2	0.6	0.2	0.4	. .	1.2
Transport	0.3	0.0	0.3	0.0	0.7	0.3	0.0	0.3	0.0	0.7
Northern Ireland Depts.	0.1	0.1	0.2	0.0	0.5	0.1	0.2	0.2	0.0	0.5
Scottish Depts.	0.2	0.1	0.1	0.0	0.4	0.1	0.1	0.1	0.0	0.4
Welsh Depts.	. .	. .	. .	0.0	0.0	. .	. .	. .	0.0	0.0
Employment	. .	. .	. .	0.0	0.0	. .	. .	. .	0.0	0.0
Manpower Services Commission	. .	. .	. .	0.0	0.0	. .	. .	. .	0.0	0.0
Other Departments	0.3	0.2	0.5	0.0	1.1	0.4	0.2	0.4	0.1	1.1
Total civil departments	6.6	3.0	11.4	0.3	21.3	3.2	1.4	2.6	0.3	7.5
Research councils										
Agricultural and Food	1.1	0.3	1.2	. .	2.6	2.4	1.1	1.8	. .	5.3
Medical	1.5	1.0	1.2	. .	3.7	1.5	1.0	1.1	. .	3.6
Natural Environment	1.4	0.1	1.1	. .	2.6	1.3	0.1	1.0	. .	2.5
Science and Engineering	1.1	0.2	1.5	. .	2.8	1.1	0.2	1.5	. .	2.8
Economic and Social	. .	. .	. .	0.1	0.1	. .	. .	. .	0.1	0.1
Total Research councils	5.0	1.7	4.9	0.1	11.8	6.2	2.4	5.4	0.1	14.3
University Grants Committee	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Total civil	11.7	4.7	16.4	0.4	33.1	9.5	3.8	8.0	0.4	21.8
Defence	5.0	3.9	14.3	0.1	23.3	4.9	3.9	14.0	0.1	22.9
Total employed on R&D in science and technology	16.6	8.6	30.7	. .	55.9	14.4	7.7	22.0	. .	44.1
Total employed on social science research	0.3	0.0	0.2	0.5	0.5	0.3	0.0	0.2	0.5	0.5
Total employment on R&D	17.0	8.6	30.8	0.5	56.4	14.7	7.7	22.2	0.5	44.6

1 Including administrative staff.
2 Excluding hospital staff.
3 From 1986/87 staff of grant-aided institutes were reported and costed as AFRC employees.

Source: Department of Trade and Industry.

Annex Definitions

The statistics of R&D in this article are based on definitions given in the 'Frascati Manual' [1] published by the OECD for use by the member States, and used by other international agencies as a basis for the statistics of R&D. According to this manual, the definition of R&D is: '....creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society and the use of this stock of knowledge, to devise new applications'. This definition embraces work both on science and technology and the social sciences and humanities.

Sectors of the economy are defined in a Central Statistical Office Publication, *Research and Development Expenditure and Employment* [2]. Central government is defined as being in the government sector of national accounts [3] for the relevant periods. Thus central government includes the Research Councils and, until April 1986, the UK AEA, when it became a public corporation.

Sources

Of the two annual surveys carried out by the Department of Trade and Industry, one is addressed to all government departments, and the other, to a selection of the larger enterprise groups performing R&D in industry. These annual surveys are anchored to the benchmark surveys carried out every four years, the most recent having been for 1985. Associated with the government surveys, in particular, is the *Annual Review of Government Funded R&D* [4], the latest issue of which was published in July 1988.

Objectives

The objectives for R&D expenditure defined by the European Community are referred to as 'NABS' from the French acronym for 'Nomenclature for the analysis and comparison of science programmes and budgets'.

Constant price (1981) estimates

Two price index methods have been used for the calculation of constant price estimates. One is based on the estimates of gross domestic product and is used in relation to government expenditure on R&D, and the other is computed in the Department of Trade and Industry.

Rounding

Throughout these tables, components of totals have been rounded independently of the totals. Therefore the rounded totals will not always be equal to the sums of the rounded components. In the tables, '0.0' means less than 0.05 and '. .' means zero.

References

1 *The Measurement of Scientific and Technical Activities (The Frascati Manual)*, OECD, Paris 1981, available from HMSO.
2 Studies in Official Statistics No. 27, *Research and Development Expenditure and Employment*, CSO. HMSO.
3 *United Kingdom National Accounts*, latest edition, the CSO Blue Book. HMSO.
4 *Annual Review of Government Funded Research and Development 1988*, Cabinet Office. HMSO.

Index of sources

Data given on page 5 may be more recent than that shown elsewhere in the publication.
United Kingdom balance of payments: National income and expenditure. In addition to the series indexed below, further detailed statistics are included in the regular quarterly articles (see inside back cover).

	Page	*Source*	*Further statistics*
Average earnings	5,40	Department of Employment	Monthly Digest of Statistics Employment Gazette
Balance of payments	5,48	Central Statistical Office	Financial Statistics Quarterly articles in Economic Trends
Banking		Bank of England	Financial Statistics
Bank loans, advances and acceptances	62,64		
British government securities (long dated)			
20 years yield	66		
Building societies		Bank of England	Financial Statistics
Advances on new dwellings	20	Building Societies Association	
Average prices of new dwellings on mortgage (see also Housing)	20		
Commitments on new dwellings	20		
Recommended share rate (see also Interest rates)	66		
Capital account summary, analysis by sector	58	Central Statistical Office	Financial Statistics
Car registrations and production (see also Motor vehicles)	12,32		
CBI Intentions Inquiry (see also Fixed investment)	18		
Coal (see also Energy)	24		
Commercial vehicles, production (see also Motor vehicles)	32		
Companies		Central Statistical Office	Financial Statistics
Financial companies			
Capital account, financial surplus/deficit	58		
Saving	58		
Gross trading profits	60		
In relation to total domestic income	14		Monthly Digest of Statistics
Industrial and commercial companies	60		Financial Statistics
Appropriation account	60		
Dividends, interest and current transfer payments	60		
Fixed investment	62		
Income	60		
Net borrowing requirement	62		
Saving	60,62		
Security prices and yields (see also Interest rates)	66		
Stock appreciation	60		
Taxes	60		
Construction industry		Department of the Environment	Housing and Construction Statistics
Index of output (see also Industrial production)	26		
Orders received	18,20,30		
Output	30		
Consumer credit	12	Central Statistical Office	Financial Statistics
Consumers' expenditure		Central Statistical Office	Monthly Digest of Statistics
Component categories	10		
In relation to personal income	10		
In relation to total final expenditure	14		
Per capita	14		
Counterparts to changes in M3	54	Bank of England	Financial Statistics
Credit business (see Hire purchase)	12		

Current balance (see also Balance of payments)	5,48		
Cyclical indicators	68		
Distributive trades		Central Statistical Office	Monthly Digest of Statistics
Output (see also Retail sales; Stocks)	28		
Dividends, interest and current transfer payments	60		
Domestic income (see also Incomes)	14		
Dwellings (see also Housing)	20		
Earnings (average)	5,40	Department of Employment	Monthly Digest of Statistics Employment Gazette
Electricity (see also Energy)	24,26		
Employed labour force	34,36	Central Statistical Office	Monthly Digest of Statistics
Employees in employment		Department of Employment	Monthly Digest of Statistics
All industries and services and manufacturing	36		Employment Gazette
Energy	24,26		
Consumers' expenditure on fuel and light	10	Central Statistical Office	Monthly Digest of Statistics
output index for energy and water supply	26		Monthly Digest of Statistics
Primary fuel input: total, coal and petroleum	24	Department of Energy	United Kingdom Energy Statistics
Public supply: electricity	24		Energy Trends
Engineering industries		Department of Trade and Industry	Monthly Digest of Statistics
Sales and orders: total, home market and export	30		British business
Eurodollar-3-month rate (see also Interest rates)	66		
Exchange rates	5,50	Bank of England	Financial Statistics
Expenditure (see also Total final expenditure)	8,14		
Exports		Department of Trade and Industry	Monthly Digest of Statistics
Of goods			British business
Unit value index	44		Monthly Review of External Trade Statistics
Unit value index for manufactures (international comparisons)	46		
Value	48		
Volume index	44		
Of goods and services	8,14	Central Statistical Office	Monthly Digest of Statistics
Of passenger cars, commercial vehicles	32		
Orders; engineering industries	30		
Relative prices (as measure of trade competitiveness)	46	Department of Trade and Industry	Monthly Review of External Trade Statistics
Relative profitability (as measure of trade competiveness	46		
Final expenditure (see also Total final expenditure)	8,14		
Financial companies (see also Companies)	58		
Fixed investment			
By industrial and commercial companies (see also Companies)	62		
By sector and by type of asset	16	Central Statistical Office	Monthly Digest of Statistics
Dwellings (see also Housing)	16,20		British business
In relation to total final expenditure	8,14		Monthly Digest of Statistics
Manufacturing industry			
CBI Intentions Inquiry	18	Confederation of British Industry	Industrial Trends Survey
Contractors' orders for private industrial work	18	Department of the Environment	Housing and Construction Statistics
In plant and machinery, new buildings and work	18	Department of Trade and Industry	Monthly Digest of Statistics
Gas (see also Energy)	24,26		
General government consumption of goods and services	8,14	Central Statistical Office	Monthly Digest of Statistics
Receipts and expenditure	56		Financial Statistics

Gross domestic fixed capital formation (see also Fixed investment)	14,16,20,60		
Gross domestic product	6	Central Statistical Office	Monthly Digest of Statistics
And components of final expenditure	8		
In relation to output	28		
In relation to stocks	22		
Per capita	14		
Gross national product *per capita*	14	Central Statistical Office	Not published elsewhere
Gross trading profits of companies (see also Companies)	60		
Hire purchase debt	12	Department of Trade and Industry	Monthly Digest of Statistics British Business Financial Statistics
Hours worked	36	Department of Employment	Monthly Digest of Statistics Employment Gazette
Housing			
Average price of new dwellings mortgages approved	20	Department of the Environment Building Societies Association	Housing and Construction Statistics
Commitments and advances on new dwellings	20	Building Societies Association	Financial Statistics
Consumers' expenditure on housing	10	Central Statistical Office	Monthly Digest of Statistics
Fixed investment in dwellings	16,20		
Orders received by contractors for new houses	20	Department of the Environment	Monthly Digest of Statistics
Starts and completions	20	Scottish Development Department	Housing and Construction Statistics
Imports			
Of goods		Department of Trade and Industry	Monthly Digest of Statistics
Unit value index	44		British business
Value	48		
Volume index	44		
Of goods and services in relation to total final expenditure	8	Central Statistical Office	Monthly Digest of Statistics
Price competitiveness	46	Department of Trade and Industry	Not published elsewhere
Incomes		Central Statistical Office	Monthly Digest of Statistics
Company income (see also Companies)	60		
Income from employment as a percentage of total domestic income (see also Wages: Earnings)	14		
Personal disposable income	10		
Per capita	14		
Personal income before tax	10		
Total domestic income	14		
Industrial and commercial companies (see also Companies)	60		
Industrial production: index of output	5,26	Central Statistical Office	Monthly Digest of Statistics
By market sector	26		
By selected industries	26		
In relation to output	28		
In relation to stocks (manufacturing industries)	22		
Inter-bank 3-month rate (see also Interest rates)	66		
Interest rates	66	Central Statistical Office Bank of England HM Treasury Building Societies Association *Financial Times* Institute of Actuaries Faculty of Actuaries	Financial Statistics
British government securities long-dated (20 years) yield			
Building Societies Association recommended share rate			
Eurodollar 3-month rate			
Financial Times index of industrial ordinary shares			
Inter-bank 3-month rate			
Local authorities 3-month deposit rate			
London clearing banks base rate and 7-day deposits			
Sterling certificates of deposit			
Treasury bill yield			
US $ deposits in London			
Invisibles (see also Balance of payments)	48		

Liquidity, private sector	52	Bank of England	Financial Statistics
Local authorities 3-month deposit rate (see also Interest rates)	66		
London clearing banks rates (see also Interest rates)	66		
Manufacturing industry (see Banking; Employees in employment; Fixed investment; Hours worked; Industrial production; Output per person employed; Output per person hour; Stocks; Wage rates; Wages and salaries)			
Money stock	5,52,54	Bank of England	Financial Statistics
Motor vehicles			
Consumers' expenditure on cars and motor-cycles	10	Central Statistical Office	Monthly Digest of Statistics
New car registrations	12	Department of Transport	Monthly Digest of Statistics
Production of passenger cars and commercial vehicles: total and for export	32	Department of Trade and Industry	British business
National disposable income	6	Central Statistical Office	
Official reserves	5,50	HM Treasury	Financial Statistics Monthly Digest of Statistics
Orders received			
By construction industry (see also Construction)	18,20,30		
By contractors for private industrial work	18	Department of the Environment	Housing and Construction Statistics
By engineering industries (see also Engineering)	30		
Output			
By construction industry (see also Construction)	26, 30		
By engineering industries (see also Engineering)	30		
Index numbers by industry groups	28	Central Statistical Office	Monthly Digest of Statistics
manufacturing industries	26		
Per person employed	34		
Per person hour: manufacturing industry	34		
production industries	26		
Overseas trade (see Exports; Imports; Visible trade)			
Personal disposable income	10,14	Central Statistical Office	Monthly Digest of Statistics
Personal income before tax	10	Central Statistical Office	Monthly Digest of Statistics
Petroleum (see also Energy)	24		
Population			
Estimates *per capita*, income, product and spending	14	Central Statistical Office	Not published elsewhere
Working	36	Department of Employment	Monthly Digest of Statistics Employment Gazette
Prices			
Average price of new dwellings on mortgage (see also Housing)	20		
Pensioner price indices	42	Department of Employment	Employment Gazette
Producer price index: input and output	5,42	Department of Trade and Industry	Monthly Digest of Statistics British business
Producer price index (international comparisons)	46	Department of Trade and Industry	Not published elsewhere
Relative wholesale prices (as measure of trade competitiveness)	46	Department of Trade and Industry	Not published elsewhere
Retail price index	5,42	Department of Employment	Monthly Digest of Statistics Employment Gazette
Tax and price index	5	Central Statistical Office	

Private sector			
Capital account, financial surplus/deficit	58	Central Statistical Office	Financial Statistics
Gross fixed investment	14,16		Monthly Digest of Statistics
Housing starts and completions (see also Housing)	20		Housing and Construction Statistics
Liquidity	52	Bank of England	Financial Statistics
Producer price index (see also Prices)	42		
Production (see Industrial production; Motor vehicles: Output: Steel)			
Productivity: output per person employed, output per hour in manufacturing industries	34	Central Statistical Office Department of Employment	Monthly Digest of Statistiscs
Profits (see also Companies)	60		
Profits and dividends in invisible trade (see Balance of payments)			
Public sector		Central Statistical Office	Financial Statistics
Borrowing requirement	54,56		
Expenditure	56		
Capital account, financial surplus/deficit	58		
Fixed investment	14,16		
Housing starts and completions (see also Housing)	20		Housing and Construction Statistics
Receipts	56		
Purchasing power of the pound	42	Central Statistical Office	Not published elsewhere
Regional unemployment rates (see Unemployment)			
Rent and non-trading income; I and C Companies	60		
Retail price index (see also Prices)	5,42		
Retail sales			
Volume index numbers	5,12	Department of Trade and Industry	Monthly Digest of Statistics
Volume index numbers	12		British business
Ratio of distributors' stocks to retail sales	22	Central Statistical Office Department of Trade and Industry	
Salaries (see also Wages and salaries)	40		
Saving, company (see also Companies)	58,60,62		
Savings ratio, personal	10	Central Statistical Office	Monthly Digest of Statistics
Services (see also Balance of payments)	48		
Steel, production and consumption	32	Department of Trade and Industry	Monthly Digest of Statistics
Sterling certificates of deposit (see also Interest rates)	66		
Sterling			
Exchange rate index	5,50	HM Treasury	Financial Statistics
Exchange rates against major currencies	50	Bank of England	
Stock appreciation, company sector (see also Companies)	60		
Stocks			
Changes by industry groups	22	Central Statistical Office	Monthly Digest of Statistics
Ratios: total stocks to GDP(E), manufactured stocks to manufacturing production, distributors' stocks to retail sales	22		British business
Total changes in relation to GDP(E)	8		Monthly Digest of Statistics
Tax and price index	5	Central Statistical Office	Monthly Digest of Statistics
Taxes		Central Statistical Office	Financial Statistics
On capital	56		
On income	56		
On expenditure	56		
Payment of taxes by companies	60		

Terms of trade	44	Department of Trade and Industry	Monthly Digest of Statistics British business
Total domestic income (see also Incomes)	14		
Total final expenditure on goods and services	8,14	Central Statistical Office	Monthly Digest of Statistics
Trade competitiveness measures	46	Department of Trade and Industry Central Statistical Office International Monetary Fund	Monthly Review of External Trade Statistics International Financial Statistics
Transfers (see also Balance of payments)	48		
Treasury bill yield (see also Interest rates)	66		
Undistributed income: I and C Companies	60,62		
Unemployment		Department of Employment	Monthly Digest of Statistics
Regional unemployment rates	38		Employment Gazette
Total unemployed; unemployed excluding school-leavers and adult students; including school leavers	5,36		
Unfilled vacancies	5,36	Department of Employment	Monthly Digest of Statistics Employment Gazette
Unit labour costs (international comparisons)	46	International Monetary Fund	International Financial Statistics
Unit values of exports and imports (see also Exports; Imports)	44		
Vacancies notified and remaining unfilled	5,36		
Visible trade (see also Exports; Imports)	5,44,48	Central Statistical Office Department of Trade and Industry	Monthly Digest of Statistics British business
Wage rates, basic weekly	40	Department of Employment	Monthly Digest of Statistics Employment Gazette
Wages and salaries			
In relation to personal income before tax	10	Central Statistical Office	Monthly Digest of Statistics
Per unit of output	40	Central Statistical Office Department of Employment	Monthly Digest of Statistics Employment Gazette
Working population (see also Population)	36		

Dd289349 9/88 C25 G441 10170

cc

ISBN 0 11 620320 X
ISSN 0013 0400

Articles published in *Economic Trends*

National income and expenditure. An article containing quarterly figures is published every January, April, July and October

United Kingdom balance of payments. An article showing quarterly figures is published every March, June, September and December

Cyclical indicators for the United Kingdom economy. An article showing individual indicators is published every February, May, August and November

Other Articles

1985	
May	Commodity flow accounts for the United Kingdom
July	Revisions to quarterly estimates of GDP
August	Research and development in the United Kingdom in 1983
	Measuring public expenditure
November	Regional Accounts, 1984
December	Employment in the public and private sectors 1979-1985
	The effects of taxes and benefits on household income 1984
1986	
March	The Budget: 18 March 1986
	The economy: recent developments and prospects to mid-1987
May	International comparisons of taxes and social security contributions in 20 OECD countries 1973-1983.
July	The effects of taxes and benefits on household income 1984
August	Central government expenditure on research and development in 1984
November	The effects of taxes and benefits on household income 1985
	Regional accounts 1985
December	The monthly invisibles balance
	Employment in the public and private sectors 1980 to 1986
1987	
February	A new UK definition of the High Technology Industry
March	The Budget: 17 March 1987
	The economy: recent developments and prospect to mid−1988
May	International comparisons of taxes and social security contributions in 20 OECD countries 1973−1984
	National and sector balance sheets 1957−1985
June	International comparisons of Real Value Added, Productivity and Energy Intensity in 1980
July	The effects of taxes and benefits on household income 1985
August	Revisions to quarterly estimates of GDP
October	Long term trends in public expenditure
November	Regional Accounts 1986
	The distribution of income in the United Kingdom, 1984/85
December	International comparisons of taxes and social security contributions in 20 OECD countries 1975-1985
	Employment in the public and private sectors 1981-1987
1988	
January	Regional Accounts, 1986
March	The Budget: 15 March 1988
	The economy: recent developments and prospects to mid-1989
	Rebasing the National Accounts: the reasons and the likely effects
July	PSBR: new data on notes and coin

For articles published in earlier issues see the lists in Economic Trends, Nos. 304, 328 and 362. Copies of articles may be obtained from the Publications Unit, Great George Street, London SW1P 3AQ, on payment of £1.50 per copy to cover postage and handling. The appropriate remittance should accompany each order. Cheques, etc., should be made payable to Cabinet Office.

Economic Trends

Economic Trends brings together all the main economic indicators. The largest section gives time series and graphs over the last five years or so. It is preceded by several pages of the latest information and followed by an analysis of indicators in relation to the business cycle over the last 20 years. Other articles comment on and analyse economic statistics.

Economic Trends is the primary publication for the quarterly national accounts and balance of payments articles.

Other [redacted]onthlies are the *Monthly Digest of Statistics* and *Financial Statistics.*

Economic Trends Annual Supplement is a unique source for long runs of quarterly and annual data for the key series of economic indicators. About half span 25 years or more.

(Annual subscription including Annual Supplement and postage £110.00)

ISBN 0 11 620320 X